



STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 10/054536

TO: Sarvamangala Devi
Art Unit: 1645
Location: REM 3C18
Serial Number: 10/054536

Tuesday, June 21, 2005

From: Beverly Shears
Location: Biotech-Chem Library
REM 1A54
Phone: 571-272-2528
Email: beverly.shears@uspto.gov

Search Notes

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157124

Shears, Beverly

From: Devi, Sarvamangala
Sent: Friday, June 17, 2005 7:42 AM
To: Shears, Beverly
Subject: 10/054,536

Beverly:

In application 10/054,536, please perform a sequence search for SEQ ID NO: 2 in commercial and pending databases.

Thanx.

S. DEVI, Ph.D.
AU 1645
Rems - 3C18

BEST AVAILABLE COPY

1

Date completed:
Searcher: Beverly e 2528
Terminal time:
Elapsed time:
CPU time:
Total time:
Number of Searches:
Number of Databases:

Search Site	Vendors
<input type="checkbox"/> STIC	<input type="checkbox"/> IG
<input type="checkbox"/> CM-1	<input type="checkbox"/> STN
<input type="checkbox"/> Pre-S	<input type="checkbox"/> Dialog
N.A. Sequence	<input type="checkbox"/> APS
A.A. Sequence	<input type="checkbox"/> Geninfo
Structure	<input type="checkbox"/> SDC
Bibliographic	<input type="checkbox"/> DARC/Questel
	<input checked="" type="checkbox"/> Other CGN

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OM nucleic - nucleic search, using sw model

Run on: June 19, 2005, 15:45:05 ; Search time 3604 Seconds
 (without alignments)

Title: US-10-054-536-2

Perfect score: 747

Sequence: 1 atgtccctgttccatcaact.....tcttgtgatccatctatctga 747

Scoring table: IDENTITY_NUC Gapop 10_0 , Gapext. 1.0

Searched: 4708233 seqs, 24227607955 residues

Total number of hits satisfying chosen parameters: 94164666

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
 Maximum Match 100%
 Listing First 45 summaries

Database :

GenEmbl:

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1: gb_ba:*
2: gb_htg:*
3: gb_in:*
4: gb_im:*
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6: gb_dat:*
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8: gb_dl:*
9: gb_pr:*
10: gb_ro:*
11: gb_sts:*
12: gb_sy:*
13: gb_un:*
14: gb_vl:*
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 21 743.8 99.6 776 9 AF60991
 22 635.8 85.1 1188 6 I09220 Sequence 1
 CQ72821 Sequence
 L43911 Macaca mula
 D73408 Bos taurus
 AF164576 Sus scrofa
 E37364 Swine serum
 L43912 Macaca mula
 S42294 mannone-bin
 X15957 H.sapiens M
 AF080510 Homo sapi
 D11440 Mus musculus
 BC010760 Mus musculus
 AY707499 Gorilla g
 AL731550 Human DNA
 AT707487 Pan trogl
 AC044785 Homo sapi
 X05023 Rat mRNA fo
 AX102034 Sequence
 M14103 Rat mannose
 AY707483 Pongo pyg
 AT707507 Hylobates
 AT707503 Hylobates
 AT707519 Presbytis
 AY707479 Papio pap

ALIGNMENTS

RESULT 1
 E27637 LOCUS E27637 Recombinant human mannan binding protein and process for producing
 DEFINITION the same.
 ACCESSION E27637_1 GI:13018239
 VERSION E27637_1
 KEYWORDS JP 199206378-A/2.
 SOURCE unidentified
 ORGANISM unidentified
 unclassified.
 REFERENCE 1 (bases 1 to 747)
 AUTHORS Nobutaka,W.
 TITLE Recombinant human mannan binding protein and process for producing
 the same
 Patent: JP 199206378-A 2 03-AUG-1999;
 JOURNAL FUSO YAKUHIN KOGYO KK
 COMMENT OS Unidentified
 PN JP 199206378-A/2
 PD 03-AUG-1999

PAT 18-JUN-2001
 linear DNA
 Recombinant human mannan binding protein and process for producing

SUMMARIES

Result No.	Score	Match	Length	DB ID	Description
1	747	100.0	747	6 B27637	E27637 Recombinant AR182149 Sequence CQ875887 Sequence Y16576 Homo sapi CQ875888 Sequence CQ875891 Sequence CQ875893 Sequence Y16577 Homo sapi Y16580 Homo sapi Y16581 Homo sapi B27636 Recombinant AX411061 Sequence X15412 Human mRNA BC069338 Homo sapi CQ875889 Sequence Y16578 Homo sapi HOSA16581 B27636 Recombinant AX411061 Sequence X15412 Human mRNA BC069338 Homo sapi CQ875889 Sequence Y16578 Homo sapi CQ875890 Sequence CQ875892 Sequence Y16579 Homo sapi
11	747	100.0	900	6 AR182149	
12	747	100.0	1632	6 CQ875887	
13	747	100.0	1632	9 CQ875888	
14	745.4	99.8	960	9 BC069338	
15	745.4	99.8	1638	9 CQ875889	
16	745.4	99.8	1632	6 CQ875889	
17	745.4	99.8	1632	9 CQ875890	
18	745.4	99.8	1638	6 CQ875892	
19	745.4	99.8	1638	9 HOSA16579	

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	DB ID	Description
1	747	100.0	747	6 B27637	E27637 Recombinant AR182149 Sequence CQ875887 Sequence Y16576 Homo sapi CQ875888 Sequence CQ875891 Sequence CQ875893 Sequence Y16577 Homo sapi Y16580 Homo sapi Y16581 Homo sapi B27636 Recombinant AX411061 Sequence X15412 Human mRNA BC069338 Homo sapi CQ875889 Sequence Y16578 Homo sapi HOSA16581 B27636 Recombinant AX411061 Sequence X15412 Human mRNA BC069338 Homo sapi CQ875889 Sequence Y16578 Homo sapi CQ875890 Sequence CQ875892 Sequence Y16579 Homo sapi
11	747	100.0	900	6 AR182149	
12	747	100.0	1632	6 CQ875887	
13	747	100.0	1632	9 CQ875888	
14	745.4	99.8	960	9 BC069338	
15	745.4	99.8	1638	9 CQ875889	
16	745.4	99.8	1632	6 CQ875889	
17	745.4	99.8	1638	9 CQ875890	
18	745.4	99.8	1638	6 CQ875892	
19	745.4	99.8	1638	9 HOSA16579	

Query Match 100.0%; Score 747; DB 6; Length 747;
 Best Local Similarity 100.0%; Pred. No. 7-e-0%;
 Matches 747; Conservative 0; Nismatches 0; Indels 0; Gaps 0;

ORIGIN 1 ATGTCCTGTTCATCACTCCCTCTCCAGTATGGCGAGCTTACTCA 60

Best Local Similarity 100.0%; Pred. No. 7.7e-209; Matches 747; Conservative 0; Mismatches 0; Indels 0; Gaps 0;									
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Qy	61 GAAACTGTACCGTGTACGATGCCAAAGAACCTGCCATGCTGAGTCT 120	Db	61 GAAACTGTACCGTGTACGATGCCAAAGAACCTGCCATGCTGAGTCT 120	Qy	121 CCAGGCATCAACCGCTTCCAGCAGAACATGGCTATGGACCAAGGG 180	Qy	121 CCAGGCATCAACCGCTTCCAGCAGAACATGGCTATGGACCAAGGG 180	Db	121 CCAGGCATCAACCGCTTCCAGCAGAACATGGCTATGGACCAAGGG 180
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Db	241 AATCCAGGCCCTTCTGGTATAGCTGGCTCCAGGAAAGCTGCA 300	Qy	301 CCGGATGGTGAATATTGACCTTGCTGCCCTGAGAACAGAAATGCA 360	Qy	301 CCGGATGGTGAATATTGACCTTGCTGCCCTGAGAACAGAAATGCA 360	Db	301 CCGGATGGTGAATATTGACCTTGCTGCCCTGAGAACAGAAATGCA 360	Qy	301 CCGGATGGTGAATATTGACCTTGCTGCCCTGAGAACAGAAATGCA 360
Qy	301 CCGGATGGTGAATATTGACCTTGCTGCCCTGAGAACAGAAATGCA 360	Db	301 CCGGATGGTGAATATTGACCTTGCTGCCCTGAGAACAGAAATGCA 360	Qy	361 CGATATCAAAGTGGCTGACCTCTCTGGCAAACACAGTGGAAACAGTCTCTG 420	Qy	361 CGATATCAAAGTGGCTGACCTCTCTGGCAAACACAGTGGAAACAGTCTCTG 420	Db	361 CGATATCAAAGTGGCTGACCTCTCTGGCAAACACAGTGGAAACAGTCTCTG 420
Db	361 CGATATCAAAGTGGCTGACCTCTCTGGCAAACACAGTGGAAACAGTCTCTG 420	Qy	421 ACCATGGTGAATAATTGACCTTGAAAGTAAAGCTGGCTGAAAGTCTCCGCC 480	Qy	421 ACCATGGTGAATAATTGACCTTGAAAGTAAAGCTGGCTGAAAGTCTCCGCC 480	Db	421 ACCATGGTGAATAATTGACCTTGAAAGTAAAGCTGGCTGAAAGTCTCCGCC 480	Qy	421 ACCATGGTGAATAATTGACCTTGAAAGTAAAGCTGGCTGAAAGTCTCCGCC 480
Qy	421 ACCATGGTGAATAATTGACCTTGAAAGTAAAGCTGGCTGAAAGTCTCCGCC 480	Db	421 ACCATGGTGAATAATTGACCTTGAAAGTAAAGCTGGCTGAAAGTCTCCGCC 480	Qy	481 TCTGTGGCCACCCCGAACGGATGGCTGAGAACATGGCCATTGAGAAGG 540	Qy	481 TCTGTGGCCACCCCGAACGGATGGCTGAGAACATGGCCATTGAGAAGG 540	Db	481 TCTGTGGCCACCCCGAACGGATGGCTGAGAACATGGCCATTGAGAAGG 540
Qy	481 TCTGTGGCCACCCCGAACGGATGGCTGAGAACATGGCCATTGAGAAGG 540	Db	481 TCTGTGGCCACCCCGAACGGATGGCTGAGAACATGGCCATTGAGAAGG 540	Qy	541 GAAGCCTCTGGCATCACTGATGAGAGACAGAACGGCACTTGTGATCTGAGA 600	Qy	541 GAAGCCTCTGGCATCACTGATGAGAGACAGAACGGCACTTGTGATCTGAGA 600	Db	541 GAAGCCTCTGGCATCACTGATGAGAGACAGAACGGCACTTGTGATCTGAGA 600
Qy	541 GAAGCCTCTGGCATCACTGATGAGAGACAGAACGGCACTTGTGATCTGAGA 600	Db	541 GAAGCCTCTGGCATCACTGATGAGAGACAGAACGGCACTTGTGATCTGAGA 600	Qy	601 AATAGACTGACTCACAAACTGAAAGTGGCTGAGAACATGGCCATTGAGAAGG 660	Qy	601 AATAGACTGACTCACAAACTGAAAGTGGCTGAGAACATGGCCATTGAGAAGG 660	Db	601 AATAGACTGACTCACAAACTGAAAGTGGCTGAGAACATGGCCATTGAGAAGG 660
Qy	601 AATAGACTGACTCACAAACTGAAAGTGGCTGAGAACATGGCCATTGAGAAGG 660	Db	601 AATAGACTGACTCACAAACTGAAAGTGGCTGAGAACATGGCCATTGAGAAGG 660	Qy	666 ATAGACTGACTCACAAACTGAAAGTGGCTGAGAACATGGCCATTGAGAAGG 666	Qy	666 ATAGACTGACTCACAAACTGAAAGTGGCTGAGAACATGGCCATTGAGAAGG 666	Db	666 ATAGACTGACTCACAAACTGAAAGTGGCTGAGAACATGGCCATTGAGAAGG 666
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Qy	721 CTGGCGCTCTGTGAGTTCCCTATCTGA 747	Db	721 CTGGCGCTCTGTGAGTTCCCTATCTGA 747	Qy	786 CTGGCGCTCTGTGAGTTCCCTATCTGA 812	Qy	786 CTGGCGCTCTGTGAGTTCCCTATCTGA 812	Db	786 CTGGCGCTCTGTGAGTTCCCTATCTGA 812
RESULT 2									
AR182149	AR182149	Sequence 1 from patent US 6337193.	900 bp	DNA	linear	PAT 20-APR-2002	RESULT 3	CQ875887	CQ875887
LOCUS	AR182149	DEFINITION	Sequence 1 from patent US 6337193.	900 bp	DNA	linear	LOCUS	1632 bp	1632 bp
DEFINITION	AR182149	VERSION	AR182149	VERSION	VERSION	VERSION	DEFINITION	Sequence 20 from Patent WO2004065626.	Sequence 20 from Patent WO2004065626.
KEYWORDS		SOURCE	AR182149	SOURCE	SOURCE	SOURCE	KEYWORDS	CQ875887	CQ875887
ORGANISM	Unknown.	ORGANISM	Unknown.	ORGANISM	ORGANISM	ORGANISM	ORGANISM	Homo sapiens (human)	Homo sapiens (human)
REFERENCE	Unclassified.	REFERENCE	Unclassified.	REFERENCE	REFERENCE	REFERENCE	REFERENCE	Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.	Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
AUTHORS	1 (bases 1 to 900).	AUTHORS	1 (bases 1 to 900).	AUTHORS	AUTHORS	AUTHORS	AUTHORS	Garred, P.; Madsen, H.O. and str M.J.	Garred, P.; Madsen, H.O. and str M.J.
JOURNAL	Tully, R.E., Caltejrone, G. Thomas., Moyer, S.S. and Ronning, M.T.	JOURNAL	Expression of manose-binding protein in methylotrophic yeast.	JOURNAL	A method of sepsis prognosis	JOURNAL	A method of sepsis prognosis	Patent: WO 2004065626-A 20 05-AUG-2004;	Patent: WO 2004065626-A 20 05-AUG-2004;
FEATURES	Location/Qualifiers	FEATURES	Location/Qualifiers	FEATURES	Location/Qualifiers	FEATURES	Location/Qualifiers	Rigshospitalet (DK); Kobenhavns Amt (DK)	Rigshospitalet (DK); Kobenhavns Amt (DK)
ORIGIN	Query Match	100.0%;	Score 747;	DB 6;	Length 900;	FEATURES	Location/Qualifiers	Location/Qualifiers	Location/Qualifiers

source	1. .1632 /organism="Homo sapiens" /mol_type="unassigned DNA" /db_xref="taxon:9606"	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
ORIGIN		
Query Match	100.0%; Score: 747; DB: 6; Length: 1632;	
Best Local Similarity	100.0%; Pred. No. 8. 28-209;	
Matches	747; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	
Qy	1 ATGTCCTGTTCATCACTCCCTCTCCTCTCTGAGATGGTGGCAGGTCTACTCA 60	REFERENCE 1 AUTHORS Madsen,H.O., Satz,M.L., Høgh,B., Svegaard,A. and Garred,P. TITLE Different molecular events result in low protein levels of mannan-binding lectin in populations from southeast Africa and South America J. Immunol. 161 (6), 3169-3175 (1998)
Db	886 ATGTCCTGTTCATCACTCCCTCTCCTCTGAGATGGTGGCAGGTCTACTCA 945	JOURNAL MEDLINE 98414317 PUBMED 9743385 REFERENCE 2 (bases 1 to 1632) AUTHORS Madsen,H.O. TITLE Direct Submission JOURNAL Immunochemistry, Section 7631, National University Hospital, Tagensvej 20, DK-2200 Copenhagen, Denmark COMMENT Related sequences X15954, X15955, X15956, X15422. FEATURES Location/Qualifiers Source /organism="Homo sapiens" /mol_type="genomic DNA" /chromosome="10" /map="J0Q11.2-q21" /note="MBL haplotype LYQA"
Qy	61 GAACTGTGACCTCTGAGGTGCCCCAAAAGACCGNCCCTGCAGTGATTGCCTGAGCTCT 120	Variation 273 /note="polymorphism in different MBL haplotypes"
Db	946 GAAACTGTGACCTGTGAGGTGCCCCAAAAGACCTGCTGAGATGGCTGTAGCTCT 1005	Variation 396 /note="polymorphism in different MBL haplotypes"
Qy	121 CGAGCATCACGGTTCCAGGCAAAAGATGGCTGTAGTGACCAAGGGAGAAAGGG 180	Variation 474 /note="polymorphism in different MBL haplotypes"
Db	1006 CCAGGCATCACGGCTTCCCAGGCAAAAGATGGCTGTAGTGACCAAGGGAGAAAGGG 1065	Variation 487 /note="polymorphism in different MBL haplotypes"
Qy	181 GAACCAAGGCCAGGGCTCACAGGCTTACAGGGCCCCCTCGAAAGTGGGCTTCAGGA 240	Variation 596 /note="polymorphism in different MBL haplotypes"
Db	1066 GAACCAAGGCCAGGGCTCACAGGCTTACAGGGCCCCCTCGAAAGTGGGCTTCAGGA 1125	gene 739..1632 /note="polymorphism in different MBL haplotypes"
Qy	241 AATCCAGGGCTCTGGGCTCACCGGCAAAAGGGCCA AAAAGGAGACCTCTGGAAAAAGT 300	CAAAT_signal 739..1632 /note="polymorphism in different MBL haplotypes"
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Qy	301 CCGATGTGATGATGAGCTCTGGCTCGCTCGCTCGAAACAGAAATGGCA 360	CDS 886..1632 /note="polymorphism in different MBL haplotypes"
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Qy	421 ACCATGTGCTAAATATGACCTCTGAAAAAGTGGCTGACCTCTGGCTCAAGGTCAAGGCC 480	variation 820..1785 /note="polymorphism in different MBL haplotypes"
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RESULT 4		sig_peptide 886..1632 /note="polymorphism in different MBL haplotypes"
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ACCESSION	Y16576	ORGANISM Homo sapiens
VERSION		
KEYWORDS		
SOURCE		

/note="polymorphism in different MBL haplotypes"

ORIGIN	Query Match	Score	Length	FEATURES	TITLE
	Best Local Similarity	100.0%	1632;	Source	JOURNAL
Qy	1 ATGTCCTGGTTTCATCATCTCCCTCTCCCTCTCCCTCTGCAGTATGGTGGCAAGCCTTACTCA	60	1	Patent : WO 200405626-A 21 AUG-2004; Rigshospitalet (DK) : Kobenhavns Amt (DK)	A method of sepsis prognosis
Db	886 ATGCCCTGTTTCATCATCTCCCTCTCCCTCTGCAGTATGGTGGCAAGCCTTACTCA	945	1	Location/Qualifiers	
Qy	61 GAAACTGTAACCTGTGAGATGCCAANAGACTGCCCTGCAGTGCCTGTACTCT	120	1. .1638	/organism="Homo sapiens"	
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Db	1006 CCAGGCATCAACGGCTTCCAGGAAAGATGGCTGATGGACCAAGAACGGG	1065	0;	Best Local Similarity	100.0% ; Pred. No. 8.2e-209 ;
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Qy	241 AATCAGGGCCCTTGGTGTACAGCTGACCCCTGGAAAGAACGGG	300	0;	Db	892 ATGTCCTGGTTTCATCATCTCCCTCTGCAGTATGGTGGCAAGCCTTACTCA 951
Db	1126 AATCAGGGCCCTTGGTGTACAGCTGACCCCTGGAAAGAACGGG	1185	0;	Qy	61 GAAACTGTAACCTGTGAGATGCCAANAGACTGCCCTGCAGTGCCTGTACTCT
Qy	301 CCGGATGGTGTATAGTCCTGGCTGACCCCTGGAAAGAACGGG	360	0;	Db	952 GAAACTGTAACCTGTGAGATGCCAANAGACTGCCCTGCAGTGCCTGTACTCT
Db	1186 CCGGATGGTGTATAGTCCTGGCTGACCCCTGGAAAGAACGGG	1245	0;	Qy	121 CCAGGCTCAACGGCTTCCAGGAAAGATGGGCTCCCTGCAGAAGGGGG 180
Qy	361 CGTATCAA AAAAGTGCTGACCTCTCTGGCAAACAAAGTGGAAAGGTCTCT	420	0;	Db	1012 CCAGGCTCAACGGCTTCCAGGAAAGATGGGCTCCCTGCAGAAGGGGG 1071
Db	1246 CGTATCAA AAAAGTGCTGACCTCTCTGGCAAACAGTGGAAAGTGGAAAGTGGCTCT	1305	0;	Qy	181 GAACTGGCCAAAGGGCTGAGGGCTACAGGGCTAACGGG
Qy	421 ACCATGGTCAAATAATGACCTTGTGAAAGTGAGGCTTCCAGGCC	480	0;	Db	1072 GAACTGGCCAAAGGGCTGAGGGCTTCAAGGGCCCTTCCAGGA 1131
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Qy	481 TCTGTTGGCACCCCAAGGATGCTGCAAGAATGGCCATTGAAAGGAG	540	0;	Db	1132 AATCAGGGCCCTTCTGGTACCCGGCTGCTGCTGAAAGTGGAAAGGGG
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Db	1486 AATAGACTGACCTACACAAACTGGAAAGGGCTGACCCAACTGCTGAA	1545	0;	Qy	361 CGTATCAA AAAAGTGCTGACCTCTCTGGCTCCAGGAAAGGGGG
Qy	721 CTGGCCGTCTGTGAGTTCCCTATCTGA	747	0;	Db	1312 ACCATGGTCAAATAATGACCTTGTGAAAGTGGCTCCAGGAAAGGGGG
Db	1606 CTGGCCGTCTGTGAGTTCCCTATCTGA	1632	0;	Qy	481 TCTGTTGGCACCCCAAGGATGCTGCAAGAATGGCCATTGAAAGGGGG
RESULT 5	CQ875888	CQ875888	0;	Db	1432 GAACTGGCCCTCCTGGCATCACTGTGAGAAGAAGGGAGTTGGATCTGACAGG 1491
LOCUS		Sequence 21 from Patent WO2004065626.		Qy	601 AATAGACTGACCTACACAAACTGGAAAGGGCTGACCCAACTGCTGAA
DEFINITION		CQ875888		Db	1492 AATAGACTGACCTACACAAACTGGAAAGGGCTGACCCAACTGCTGAA
ACCESSION		GI:53789631		Qy	661 GATTTGTATTGCTACTGAAAGTGGCTCCACCTCCAT
VERSION				Db	1552 GATTTGTATTGCTACTGAAAGTGGCTCCACCTCCAT
KEYWORDS				Qy	721 CTGGCCGTCTGTGAGTTCCCTATCTGA
ORGANISM	Homo sapiens	CQ875888	0;	Db	1612 CTGGCCGTCTGTGAGTTCCCTATCTGA
Eukaryota; Metazoia; Chordata; Craniata; Vertebrata; Euteleostomi;		Location	6	RESULT 6	
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.		DEFINITION	CQ875891	CQ875891	
1		ACCESSION	CQ875891	Sequence 24 from Patent WO2004065626.	PAT 04-OCT-2004
REFERENCE		VERSION	CQ875891.1	GI:53789634	
AUTHORS	Garred, P., Madsen, H.O. and str M.J.				

Qy 721 CTGGCCGCTCTGTGAGTTCCCATCTGA 747
 Db 1612 CTGGCCGCTCTGTGAGTCCCATCTGA 1638

RESULT 9
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 DEFINITION Homo sapiens gene encoding mannose-binding protein, variant
 LxPA.

ACCESSION Y16580_1 GI:59111797
 VERSION 1
 KEYWORDS mannose-binding lectin; mbl gene.
 SOURCE Homo sapiens (human)

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.

REFERENCE 1
 AUTHORS Madsen,H.O., Satz,M.L., Hoch,B., Svejgaard,A. and Garred,P.
 TITLE Different molecular events result in low protein levels of
 mannose-binding lectin in populations from southeast Africa and
 South America. J. Immunol. 161 (6), 3169-3175 (1998)

JOURNAL 9743385
 MEDLINE 98414317
 PUBLMED 9743385
 REFERENCE 2 (bases 1 to 1638)
 AUTHORS Madsen,H.O.
 TITLE Submitted (16-FEB-1998) H.O. Madsen, Department of Clinical
 Immunology, Section 7631, National University Hospital, Tagensvej
 20, DK-2200 Copenhagen, DENMARK
 COMMENT Related sequences X15954, X15955, X15956, X15422.

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 Qy 61 GAAACTGTGACCTGTGAGGATGCCAAAANGACCTGCCCCTGAGTATGGCTGTTACTCA 120
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Db	1612	CTGGCgtCTGAGTCCATATCTGA	1638			
RESULT 10	HOSA16581	HOSA16581.	1638 bp	DNA	PRI 17-SEP-1999	
DEFINITION		Homo sapiens	gene encoding mannan/mannose-binding protein, variant			
ACCESSION	Y16581	Y16581.1	GI:5911806			
VERSION			mannoose-binding lectin; mbl gene.			
KEYWORDS						
SOURCE			Homo sapiens (human)			
ORGANISM			Homo sapiens			
ORGANISM			Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;			
MAMMALIA			Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.			
REFERENCE	1					
AUTHORS	Madsen, H.O., Satz, M.L., Hogh, B., Svejgaard, A. and Garred, P.					
TITLE	Different molecular events result in low protein levels of					
	mannan-binding lectin in populations from southeast Africa and					
JOURNAL	South America					
MEDLINE	J. Immunol. 161 (6), 3169-3175 (1998)					
PUBMED	9741385					
	2 (bases 1 to 1638)					
AUTHORS	Madsen, H.O.					
TITLE	Direct Submission					
JOURNAL	Submitted (16-FEB-1998) H.O. Madsen, Department of Clinical					
COMMENT	Immunology, section 7631, National University Hospital, Tagensvej					
FEATURES	20, DK-2200 Copenhagen, DENMARK					
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DEFINITION				
ACCESSION	E27636	E27636		
VERSION	E27636.1	GI:13018238		
KEYWORDS	JP 1999203378-A1.			
SOURCE	Homo sapiens (human)			
ORGANISM	Homo sapiens	Chordata; Craniata; Vertebrata; Euteleostomi; Bivalvia; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. 1 (bases 1 to 3605)		
REFERENCE	Nobata, N.			
AUTHORS	Recombinant human mannan binding protein and process for producing the same			
JOURNAL	Patent: JP 1999206378-A1 03-AUG-1999;			
COMMENT	FUSO YAKUBIN KOGYO KK			
OS	Homo sapiens			
PN	JP 1999206378-A1			
PD	03-AUG-1999			
PR	23-JAN-1998 JP 1998011864			
PI	NOBUTAKA WAKAMIYA			
PC	C12N15/09 C07K14/47 C12P21/02//A61K38/00, (C12N15/09, C12R1:91), (C12N15/02, C12R1:91), C12N15/00, A61K37/02, (C12N15/00, C12R1:91)			
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FH	Key	Location/Qualifiers		
FT	sig peptide	66 .125		
FT	CDS	66 .812.		
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Db	66	ATCTCCCTGTTCCATCACTCCCTCTCCATTCTCTGACTATGTTGGCGAGGCTTACTCA	125	
Qy	61	GAACATGTGACCTGTGAGATGCCAAAGACCTGCCCTGAGTGATTGCTCTAGTCT	120	
Db	126	GAACATGTGACCTGTGAGATGCCAAAGACCTGCCCTGAGTGATTGCTCTAGTCT	185	
Qy	121	CCAGGCATCAACGGCTTCAGGGCAAAAGATGGCGTCAAGGAGAAAAGGG	180	
Db	186	CCAGGCATCAACGGCTTCAGGGCAAAAGATGGCGTCAAGGAGAAAAGGG	245	
Qy	181	GAACCCGGCAACGGCTAGGGTTACAGGGCCCTGAGTGTTGGCTCCAGGA	240	
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Db	306	AATCCAGGGCCTTCAGGGTCAACAGGACCAAAAGGCCAACCTGGAAAAGT	365	
Qy	301	CCGGATGGTAGTGTAGCTGGCTGCTCA GAAGAAAGCTCTGAAACAGAAATGGCA	360	
Db	366	CCGGATGGTAGTGTAGCTGGCTGCTCA GAAGAAAGCTCTGAAACAGAAATGGCA	425	
Qy	361	CGPATCAAAGAATGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	420	
Db	426	CGPATCAAAGAATGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	485	
Qy	421	AATCCAGGGCCTTCAGGGTCAACAGGACCAAAAGGCCAACCTGGAAAAGT	300	
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RESULT 15	CQ875889	CQ875889	1632 bp	DNA	linear	PAT 04-OCT-2004		Qy	661	GATTGTGTTATGCTACTGAAAAATGCCAGTGGAAATGAGTCACCCGTCACTCCCAT 720
LOCUS	Sequence 22	From Patent	WO2004065626.					Db	1546	GATTGTGTTATGCTACTGAAAAATGCCAGTGGAAATGAGTCACCCGTCACTCCCAT 1605
DEFINITION	CQ875889									
ACCESSION	CQ875889									
VERSION	CQ875889.1	GI:53789632								
KEYWORDS										
SOURCE	Homo sapiens (human)									
ORGANISM	Homo sapiens	Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.								
REFERENCE	Garrett, P., Madson, H.O. and Stry, M.J.									
AUTHORS										
TITLE	A method of sepsis prognosis									
JOURNAL	Patent: WO 2004065626-A 22.05.AUG-2004;									
FEATURES	Rigshospitalet (DK); Kobenhavns Amt (DK)									
FEATURES	Location/Qualifiers									
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Qy	61	GAAACTGTGACCTTGAGATGCCAAGAACCTGCTGCASTGATGTCCTGAGCT	120							
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Db	1006	CCAGGCATCAAAGGGCTTCCCAGGCAAAAGATGGCGTGAATGCCAACAGGG	1065							
Qy	181	GAACCAAGGCCAAGGGCTCACAGGGCTTACAGGGCCCCCTGGAAAGTGGCC	240							
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Db	1246	CGTATCAAAGGGCTGACCTTCTCTGGAAACAACTGGAAACAGATCTCTG	1305							
Qy	421	ACCAATGGTAAATAATGACCTTGTGAAAGTGAAGGCCCTGGTGCAAGGCC	480							
Db	1306	ACCAATGGTAAATAATGACCTTGTGAAAGTGAAGGCCCTGGTGCAAGGCC	1365							
Qy	481	TCTGTGCCACCCAGAAATGCTGAGAAGATGGCCATTCAAGATCTCATCAAGGAG	540							
Db	1366	TCTGTGCCACCCAGAAATGCTGAGAAGATGGCCATTCAAGATCTCATCAAGGAG	1425							
Qy	541	GAAGCCCTCCCTGGATCACTGTGAGAAGAGAGGAGATGGCTGAGAGGA	600							
Db	1426	GAAGCCCTCCCTGGCATCACTGTGAGAAGAGAGGAGATGGCTGAGAGGA	1485							
Qy	601	AATAGACTGACTTACACAACTGGAAACAGGAGGTGATGAAACCAAA	660							
Db	1486	AATAGACTGACTTACACAACTGGAAACAGGAGGTGATGAAACCAAA	1545							

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OM nucleic - nucleic search, using sw model

Run on: June 19, 2005, 14:00:45 ; Search time 541 Seconds

(without alignment)

8173.839 Million cell updates/sec

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Minimum DB seq length: 0

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 8: geneseqn2003as: *
 9: geneseqn2003bs: *
 10: geneseqn2003cs: *
 11: geneseqn2003ds: *
 12: geneseqn2004as: *
 13: geneseqn2004bs: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	747	100.0	747	2	AAZ07142	AaZ07142 Human man
2	747	100.0	747	12	AD120100	Ad120100 DNA seqe
3	747	100.0	900	6	ABK14771	Abk14771 DNA encod
4	747	100.0	1632	13	ADR29055	Adr29055 Human MBL
5	747	100.0	1632	12	ADP03860	Adp03860 Human mbl
6	747	100.0	1638	13	ADR29056	Adr29056 Human MBL
7	747	100.0	1638	13	ADR29059	Adr29059 Human MBL
8	747	100.0	1638	13	ADR29061	Adr29061 Human MBL
9	747	100.0	3605	2	AAZ07143	AaZ07143 Human man
10	747	100.0	3605	6	ABN97210	Abn97210 Gene #370
11	747	100.0	3605	12	AD120099	Ad120099 DNA seqe
12	747	100.0	3605	12	ADJ45526	Adj45526 cDNA enco
13	745.4	99.8	1632	13	ADR29057	Adr29057 Human MBL
14	745.4	99.8	1638	13	ADR29058	Adr29058 Human MBL
15	745.4	99.8	1638	13	ADR29060	Adr29060 Human MBL
16	742.2	99.4	3592	2	AAQ53529	Aaq53529 Human Man
17	734	98.3	1644	12	ADP03848	Adp03848 Human mbl
18	734	98.3	1644	12	ADP03836	Adp03836 Human mbl
19	734	98.3	1644	12	ADP03840	Adp03840 Human mbl
20	734	98.3	1644	12	ADP03844	Adp03844 Human mbl

ALIGMENTS

21	734	98.3	1644	12	ADP03856	Adp03856 Human mbl	
22	734	98.3	1644	12	ADP03852	Adp03852 Human car.	
23	684	91.6	684	2	AAK29295	Aak29295 Mannan-bi	
24	673.4	90.1	1143	12	AD021125	Ado21125 Human car.	
25	635.8	85.1	963	1	AN91079	An91079 cDNA of h	
26	444.6	59.5	1409	6	ADA15344	Ad45344 Human ant	
27	395	52.9	1010	3	AAV10738	Aav10738 Pig serum	
28	374	50.1	3336	2	AAQ04652	Aaq04652 Human Man	
29	364.6	48.8	1037	6	ABK63803	Abk63803 Rat sequie	
30	364.6	48.8	1037	10	ADP71919	Adp71919 Renal tox-	
31	287.6	38.5	1068	12	ADP28880	Adp28880 Human sec	
32	286	38.3	717	10	ADP58056	Adp58056 Toxicity-	
33	286	38.3	717	10	ADP52544	Adp52544 Primary r	
34	284.4	38.1	943	4	AAH44805	Aah44805 Murine CD	
35	280.6	37.6	1437	4	AAK51894	Aak51894 Human pol	
c	36	274.4	36.7	4	AAK51878	Aak51878 Human pol	
37	240.6	32.2	1248	12	ADP28880	Adp28880 Human sec	
c	38	224	30.0	1143	12	ADP21125	Adp21125 Human car.
39	222	29.7	419	8	ABX46620	Abx46620 Bovine ES	
40	204.4	27.4	1211	6	ABK14789	Abk14789 DNA encod	
41	188	25.2	1802	2	AAQ53530	Aaq53530 Human Man	
42	186.2	24.9	405	6	ABX66633	Abx66633 Rat PRMBP	
43	186	24.9	1802	10	ABX08715	Abx08715 Pathogeni	
44	186	24.9	1802	10	ABX08719	Abx08719 Pathogeni	
45	186	24.9	1802	10	ABX08711	Abx08711 Pathogeni	

RESULT 1						
AAZ07142						
ID						
AAZ07142;						
XX						
AC						
XX						
DT						
11-OCT-1999						
(first entry)						
XX						
DE						
Human mannin-binding protein encoding cDNA.						
XX						
KW						
Human; mannin-binding protein; hMBP; recombinant; inhibition; infection;						
KW						
rhMBP; haemagglutination; influenza; HIV; primer; ss.						
XX						
OS						
Homo sapiens.						
XX						
PN						
W0937676-A1.						
XX						
PD						
29-JUL-1999.						
XX						
PF						
23-JUL-1998;						
XX						
PR						
23-JAN-1998;						
XX						
PA						
(FUJO) FUJO PHARM IND LTD.						
XX						
PI						
Wakamiya N;						
XX						
DR						
WP; 1999-46114/39.						
XX						
P-PSD8; AAY29485.						
XX						
PT						
Recombinant human mannin-binding protein expressed using pNOW1 vector.						
XX						
PS						
Example. 2; Page 74; .91pp; Japanese.						
XX						

The present invention describes recombinant human mannan-binding protein (rhMBP) having a molecular weight range of 1000-1300 or 200-400 kDa (by gel filtration with detection at 280 nm). rhMBP may be used as a component of drug compositions for the inhibition of haemagglutination and prevention of infection by viruses such as influenza and HIV. The present sequence encodes rhMBP (human mannan-binding protein).

Sequence 747 BP; 203 A; 187 C; 202 G; 155 T; 0 U; 0 Other;

Sequence 748 BP; 203 A; 187 C; 202 G; 155 T; 0 U; 0 Other;

Query Match	100.0%	Score 747; DB 2; Length 747;	PD 08-JAN-2004.
Best Local Similarity	100.0%	Pred. No. 1.1e-207; Mismatches 0; Indels 0; Gaps 0;	XX 30-JUN-2003; 2003WO-JP008259.
Matches 747; Conservative 0;			XX 28-JUN-2002; 2002JP-0019534.
QY	1 ATGCCCCCTTCCATCTACTCCCTCTCCTGAGATGGTGGCAAGCTCTTACCA 60		PR XX (FUSO) FUSO PHARM IND LTD.
Db	1 ATGCCCCCTTCCATCTACTCCCTCTCCTGAGATGGTGGCAAGCTCTTACCA 60		PA XX
QY	61 GAAACTGTGACCTGTGAGATGCCAANAGACCTGCCTGAGATGGTGGCTGACTCT 120		PI XX
Db	61 GAAACTGTGACCTGTGAGATGCCAANAGACCTGCCTGAGATGGTGGCTGACTCT 120		DR XX
QY	121 CCAGGCATCAACGCCCTTCAGGGAAAGATGGCGTGAATGGCACCAAGGG 180		XX
Db	121 CCAGGCATCAACGCCCTTCAGGGAAAGATGGCGTGAATGGCACCAAGGG 180		PT XX
QY	181 GAACCGGCCAACGGCTTACAGGGCTTACAGGGCCCTGGAAAAGTGGGGCTCCAGGA 240		PS Disclosure; SEQ ID NO 2; 44pp; Japanese.
QY	181 GAACCGGCCAACGGCTTACAGGGCTTACAGGGCCCTGGAAAAGTGGGGCTCCAGGA 240		XX
Db	241 AATCCAGGGCCTCTGGTACCGGACCTTCAGGAAAGGACCCCTGGAAAGGT 300		CC The present invention relates to anti-human immunodeficiency virus (HIV) agent comprising a mannose binding protein (MBP). For use in the treatment of HIV. The present sequence represents a DNA sequence related to the invention.
QY	241 AATCCAGGGCCTCTGGTACCGGACCTTCAGGAAAGGACCCCTGGAAAGGT 300		CC
Db	301 CGGGATGTTGATAGTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGG 420		CC
QY	361 CGTATCAAAAAGTGGCTGACCTCTCTGGCCAAACAAAGTGGAAAGTGGCTGGCTGG 420		CC
Db	361 CGTATCAAAAAGTGGCTGACCTCTCTGGCCAAACAAAGTGGAAAGTGGCTGGCTGG 420		CC
QY	421 ACCATGGTGAATAATGGTACCTTGGAAAGTGGAAAGGCTTGCTGGCTGGCTGG 480		CC
Db	421 ACCATGGTGAATAATGGTACCTTGGAAAGTGGAAAGGCTTGCTGGCTGGCTGG 480		CC
QY	481 TCTGGGGCACCCCCAGGAAATGGTGGCAAGTGGCAATTCATCAAGGAG 540		CC
Db	481 TCTGGGGCACCCCCAGGAAATGGTGGCAAGTGGCAATTCATCAAGGAG 540		CC
QY	541 GAAGGCTTCTGGGCTACTGTGAGAGACAGGGCAAGCTGGTGTGATCTGACAGGA 600		CC
Db	541 GAAGGCTTCTGGGCTACTGTGAGAGACAGGGCAAGCTGGTGTGATCTGACAGGA 600		CC
QY	601 ATAGACTGACTCTACACAATCTGAGAGACAGGGCAACATGGTGTGATCTGACAGGA 660		CC
Db	601 ATAGACTGACTCTACACAATCTGAGAGACAGGGCAACATGGTGTGATCTGACAGGA 660		CC
QY	661 GATTGTGTATGGTACTGAAATAATGGCACTGGTGTGATCTGACAGGGCAACATGGTGTGATCTGACAGGA 720		CC
Db	661 GATTGTGTATGGTACTGAAATAATGGCACTGGTGTGATCTGACAGGGCAACATGGTGTGATCTGACAGGA 720		CC
QY	721 CTGGCCCTCTGTGAGTCCCTATCTGA 747		CC
Db	721 CTGGCCCTCTGTGAGTCCCTATCTGA 747		CC
QY	RESULT 2		CC
AD120100	AD120100 standard; DNA; 747 BP.		CC
QY	QY		CC
Db	Db		CC
AC	AC		CC
AD120100;	AD120100;		CC
XX	XX		CC
DE	DE sequence #2 related to the invention.		CC
XX	anti-human immunodeficiency virus; HIV; mannose binding protein; MBP; ds.		CC
RW	Homo sapiens.		CC
OS	WO200402511-A1.		CC
PN	661 GATTGTGTATGGTACTGAAATAATGGCACTGGCAACATGGTGTGATCTGACAGGGCA 720.		CC

XX	DE	Human mbl2 DNA.
XX	KW	arteriosclerosis; severe heart disease; coronary heart disease; artery; polymorphism; human; mbl2; Chlamydia pneumoniae infection; mannose-binding lectin; antigen; Gene therapy; lectin-complement pathway;
XX	KW	serine protease; ds; gene.
OS	OS	Homo sapiens.
XX	Key	Location/Qualifiers
PH	variation	replace(273,g)
FT		
FT		/standard name= "single nucleotide polymorphism"
FT	variation	replace(602,c)
FT		
FT		/standard name= "single nucleotide polymorphism"
CDS		821..1638
FT		
FT		/product= "MBI2"
FT		replace(826,t)
FT	variation	
FT		/standard name= "single nucleotide polymorphism"
FT		replace(1045,t)
FT		
FT		/standard name= "single nucleotide polymorphism"
FT	variation	notes= "SNP results in an Arg to Cys variation"
FT		replace(1052,a)
FT		
FT		/standard name= "single nucleotide polymorphism"
FT		notes= "SNP results in a Gly to Asp variation"
FT	variation	replace(1061,a)
FT		
FT		/standard name= "single nucleotide polymorphism"
FT		notes= "SNP results in a Gly to Glu variation"
XX	PN	DE10237393-A1.
XX	PD	11-MAR-2004.
XX	PR	12-AUG-2002; 2002DE-01037393.
XX	PA	(LION-) LIONEX DIAGNOSTICS & THERAPEUTICS GMBH.
PA	PI	Fuerst G, Prohaszka Z, Gonczol E, Garred P, Madsen HO;
XX	DR	WPI: 2004-258256/25.
XX	PT	Determining risk of developing arteriosclerosis or coronary artery disease, by detecting both polymorphisms in the mbl2 gene and infection by Chlamydia pneumoniae.
XX	PS	Claim 2: Fig 1; 45pp; German.
XX	CC	This invention describes a novel method for determining an indicator of the risk of developing arteriosclerosis and severe heart disease of the coronary artery type by detecting polymorphisms in the human mbl2 gene and the presence of acute, chronic or early Chlamydia pneumoniae infection. The invention comprises detecting a low concentration of the MBL (=mannose-binding lectin) antigen instead of polymorphisms in mbl2, a diagnostic kit for performing the new tests, use of at least one specific polymorphism in mbl2 for determining the risk of arteriosclerosis or severe heart disease, use of recombinant or purified human MBL for treating patients, identified by the new method, who have mbl2 polymorphisms, use of polymorphic mbl2 genes for preparation of the polymorphic isoforms of MBL protein, and use of wild-type mbl2, or its fragments, for gene therapy of subjects who have mbl2 polymorphisms. The polymorphisms are stated as being at positions -551, -221 (the promoter region), +4 (untranslated region of exon 1), +52, +54, +57 or +223 (exon 1), +230 and/or +239 of the sequence deposited as Genbank Y16840. Polymorphisms are detected in genomic DNA, especially isolated from

RESULT 6	
ADR29056	ADR29056 standard; DNA; 1638 BP.
ID	XX
AC	AC
XX	ADR29056;
XX	XX
DT	DT
XX	21-OCT-2004 (first entry)
DE	Human MBL gene with non-structural/variant structural allele (codon 54).
DE	KW
KW	severe; MBL; mannose binding lectin; SIRS;
KW	systemic inflammatory response syndrome; innate immune defence;
KW	single nucleotide polymorphism; SNP; structural variant; regulatory;
KW	prophylaxis; sepsis syndrome; infection susceptibility;
KW	multiple organ failure; MOF; multiple organ dysfunction; acute; gene; ds;
KW	human.
XX	
OS	Homo sapiens.
OS	
XX	
Key	Location/Qualifiers
variation	273
FT	/*tag= ^a /standard_name= "Single nucleotide polymorphism"
FT	/note= "Non-structural allele"
FT	396
FT	/*tag= ^b /standard_name= "Single nucleotide polymorphism"
FT	/note= "Non-structural allele"
FT	474
FT	/*tag= ^c /standard_name= "Single nucleotide polymorphism"
FT	/note= "Non-structural allele"
FT	487
FT	/*tag= ^d /standard_name= "Single nucleotide polymorphism"
FT	/note= "Non-structural allele"
FT	495 .500
FT	/*tag= ^e /note= "Optional deletion in base sequence"
FT	602
FT	/*tag= ^f /standard_name= "Single nucleotide polymorphism"
FT	/note= "Non-structural allele"
FT	753
FT	/*tag= ^g /standard_name= "Single nucleotide polymorphism"
FT	/note= "Non-structural allele"
FT	826
FT	/*tag= ^h /standard_name= "Single nucleotide polymorphism"
FT	/note= "Non-structural allele"
FT	1052
FT	/*tag= ⁱ /standard_name= "Single nucleotide polymorphism"
FT	/note= "Variant structural allele"
XX	W02004065626-A2.
XX	
PD	05-AUG-2004.
XX	
PF	16-JAN-2004; 2004WO-DK000027.
XX	
PR	17-JAN-2003; 2003DK-00000042.
PR	06-MAR-2003; 2003US-0453272P.
XX	
PA	(RIGS-) RIGSHOSPITALET.
PA	(ROBE-) KØBENHAVNS AMT.
XX	
PI	Garrerd P, Madsen HO, Strom J;
XX	
WIPI	2004-51694/55.
XX	

QY 361 CGTATCAAAGTGGCTGACCTCTCTCTGGAAACAAGTGGAACAGTCAGTTCTCTG 420
 DB 1252 CGTATCAAAGTGGCTGACCTCTCTCTGGAAACAAGTGGAACAGTCAGTTCTCTG 1311
 QY 421 ACCATGTTGAATAATGACCTTGAAAGTGAAAGCCCTTGCTGTCAAGTTCCAGGCC 480
 DB 1312 ACCATGTTGAATAATGACCTTGAAAGTGAAAGCCCTTGCTGTCAAGTTCCAGGCC 1371
 QY 481 TCTTGCCACCCAGATGCTSCAGAGAATGGACCTTCGAATTCATCAAGGAG 540
 DB 1372 TCTTGCCACCCAGATGCTSCAGAGAATGGACCTTCGAATTCATCAAGGAG 1431
 QY 541 GAAGCTTCTGGCATCTGTGAGGAGCTTGGAATCAGGA 600
 DB 1432 GAAGCTTCTGGCATCTGTGAGGAGCTTGGAATCAGGA 1491
 QY 601 ATATAGCTGACTTACAAACTGGAAACAGGAGGGTAACACCAATGCTGGTTCTGATGAA 660
 DB 1492 ATATAGCTGACTTACAAACTGGAAACAGGAGGGTAACACCAATGCTGGTTCTGATGAA 1551
 QY 661 GATTCGTATTGCTACTGAAATACTGGCACTGGATGACTCTCCCTGCACCTCCAT 720
 DB 1552 GATTCGTATTGCTACTGAAATACTGGCACTGGATGACTCTCCCTGCACCTCCAT 1611
 QY 721 CTGGCGTCTGTGAGTGTGACTGAAATACTGGCACTGGATCTGTGA 747
 DB 1612 CTGGCGTCTGTGAGTGTGACTGAAATACTGGCACTGGATCTGTGA 1638

RESULT 7
 ADR29059 standard; DNA; 1638 BP.
 ID ADR29059;
 AC AC
 DT 21-OCT-2004 (first entry)
 XX Human MBL gene with high expression regulatory allele (602G).
 DE Human MBL gene with high expression regulatory allele (602G).
 KW Septic shock; severe; MBL; mannose binding lectin; SIRS;
 KW systemic inflammatory response syndrome; innate immune defence;
 KW single nucleotide polymorphism; SNP; structural variant; regulatory;
 KW prophyaxis; sepsis syndrome; infection susceptibility;
 KW multiple organ failure; MOF; multiple organ dysfunction; acute; gene; ds;
 KW human.
 OS Homo sapiens.
 XX Key variation
 FT variation 602
 /tag= a
 /standard_name= "Single nucleotide polymorphism"
 /note= "High expression regulatory allele"
 1045 FT variation
 /tag= b
 /standard_name= "Single nucleotide polymorphism"
 /note= "Normal structural allele"
 1052 FT variation
 /tag= C
 /standard_name= "Single nucleotide polymorphism"
 /note= "Normal structural allele"
 XX PN WO2004065626-A2.
 XX 05-AUG-2004.
 XX 16-JAN-2004; 2004WO-DK000027.
 XX 17-JAN-2003; 2003DK-0000042.
 PR 06-MAR-2003; 2003US-0453272P.
 XX (RTGS-) RIGSHOSPITALLET.
 PA (ROBE-) KOBENHAVNS AMT.

XX PI Garred P, Madsen HO, Strom J;
 XX DR WPI; 2004-571694/55.
 XX Predicting whether an individual having Systemic Inflammatory Response Syndrome (SIRS) will develop sepsis, useful for treating sepsis, or comprises determining the mannose-binding lectin (MBL) genotype or concentration of MBL.
 XX Disclosure; SEQ ID NO 24; 65pp; English.
 XX The invention relates to a method to determine the risk factor of a person for sepsis, severe sepsis or septic shock by correlating MBL (mannose binding lectin) genotype with a predefined risk value. It discloses the connection between the MBL genotype of an individual having SIRS (Systemic Inflammatory Response Syndrome) and the risk of developing sepsis, severe sepsis or septic shock. It shows how a decreased level of MBL and lack of functional MBL are crucial to the development of sepsis and septic shock in an individual having sepsis. A MBL is an important factor in innate immune defence. MBL single nucleotide polymorphism in the form of the structural variant (codon 54, codon 52 and codon 57) and regulatory variant (low expression and high expression) were studied. This invention discloses that the MBL gene polymorphism's causes a reduction of the MBL level, which is associated with the development and progression of sepsis in adult intensive care patients. The invention offers a service to determine whether an individual belongs to a risk group and it provides the treatment accordingly. There is an increased risk of a fatal outcome of an individual carrying MBL variant alleles. A rapid determination of MBL genotype of patients is important in identifying individuals at risk of developing sepsis, severe sepsis or septic shock. The MBL can be used for a medicament for the prevention and treatment of specified diseases. The MBL variant allele is also associated with an increased risk of death. It raises the prospective that MBL (MBL substitution) can be used in prophylaxis and treatment of sepsis syndrome. The frequency of MBL variant alleles is proportional to the severity of sepsis which indicates lacking buffering capacity of MBL towards initial microbial replication. It is not only associated with susceptibility of infection but also allows activation of host mechanisms central to the pathophysiology of the sepsis syndrome. The invention can also predict the risk for developing multiple organ failure (MOF), multiple organ dysfunction and acute organ dysfunction of an individual having SIRS. The high risk is characterised by the presence of at least one variant structural allele of the MBL gene and/or having two low expression regulatory alleles of the MBL gene in a sample. The presented sequence is the high expression regulatory allele (position 602 has a base G substitution) of MBL (mannose binding lectin) gene from human.
 XX Sequence 1638 BP; 454 A; 381 C; 431 G; 372 T; 0 U; 0 Other;
 SQ Query Match 100.0%; Score 747; DB 13; Length 1638;
 Best Local Similarity 100.0%; Pred. No. 1. 6e-207;
 Matches 747; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 ATGTCCTGTTCCATCACTCCCTCTCCCTCTCTGAGTATGGCCACCGTCTTACTCA 60
 DB 892 ATGTCCTGTTCCATCACTCCCTCTCTGAGTATGGCCACCGTCTTACTCA 951
 QY 61 GAACTGTGACCTGTGAGATGCCAAAAGACCTGCTGAGTATGGCCACCGTCTTACTCA 120
 DB 952 GAACTGTGACCTGTGAGATGCCAAAAGACCTGCTGAGTATGGCCACCGTCTTACTCA 1011
 QY 121 CCAGCCATCACGGCTTCCAGGAAGATGGCACCAAGGAGAAAGGG 180
 DB 1012 CCAGCCATCACGGCTTCCAGGAAGATGGCACCAAGGAGAAAGGG 1071
 QY 181 GAACTGGGCCAGGGCTCAAGGGCTTCAAGGGCCCCCTGGAAAGTGGCCCTCCAGGA 240
 DB 1072 GAACTGGGCCAGGGCTCAAGGGCTTCAAGGGCTTCAAGGGCCCCCTGGAAAGTGGCCCTCCAGGA 1131
 QY 241 AATCCAGGGGCTTCTGGGTCACTGGGCACTAAAGGCCAAAAAGGAGACCTGGAAAAAGT 300
 DB 1132 AATCCAGGGGCTTCTGGGTCACTGGGCACTAAAGGCCAAAAAGGAGACCTGGAAAAAGT 1191

Qy	301	CCGGATGGTCATAGTAAGCTGCTGGTCTCGAAAGAACAGAAATGGCA	3 60
Db	1192	CCGGATGGTCATAGTAAGCTGCTGGTCTCGAAAGAACAGAAATGGCA	1 251
Qy	361	C GTATCAAAGTGCTGA CTTCTCTCTGGCTGCCTCGAAAGAACAGAA	4 20
Db	1252	CGTATCAAAGTGCTGA CTTCTCTCTGGCTGCCTCGAAAGAACAGAA	13 11
Qy	421	ACCAATGGTGAATAATTGACCTTGTGAAAGTGAGGCCCTTGTCAGT	4 80
Db	1312	ACCATGGTGAATAATTGACCTTGTGAAAGTGAGGCCCTTGTCAGT	13 71
Qy	481	TCTGTGCCACCCCCCGGAATGCTGAGAATGAGGCCATTCAAGAGG	5 40
Db	1372	TCTGTGCCACCCCCCGGAATGCTGAGAATGAGGCCATTCAAGAGG	14 31
Qy	541	GAAGGCTTCCTGGGCTACCTGATGGAAAGCAGGGGAGTTGGATCT	6 00
Db	1432	GAAGGCTTCCTGGGCTACCTGATGGAAAGCAGGGGAGTTGGATCT	14 91
Qy	601	AATAGCTGACTCTACAAACTGGAAAGCAGGGTAAACCAATCTGGT	6 60
Db	1492	AATAGCTGACTCTACAAACTGGAAAGCAGGGTAAACCAATCTGGT	15 51
Qy	661	GATTGGTATGCTACTGAAATAATGGCCAGTGGAAATGAGGGTAA	7 20
Db	1552	GATTGGTATGCTACTGAAATAATGGCCAGTGGAAATGAGGGTAA	16 11
Qy	721	CTGGCCCTCTGTGAGTCCCATCTGA	7 47
Db	1612	CTGGCCCTCTGTGAGTCCCATCTGA	16 38

RESULT 8

ADR29061	ADR29061 standard; DNA; 1638 BP.
ID	
XX	
AC	ADR29061;
AC	
XX	
XX	
DT	21-Oct-2004 (first entry)
XX	Human MBL low expression regulatory allele (position 602).
DE	
KW	sepsis; septic shock; severe; MBL; mannose binding lectin; SIRS;
KW	systemic inflammatory response syndrome; innate immune defence;
KW	single nucleotide polymorphism; SNP; structural variant; regulatory;
KW	prophylaxis; sepsis syndrome; infection susceptibility;
KW	multiple organ failure; MOD; multiple organ dysfunction; acute; gene; ds;
KW	human.

Homo sapiens.	Key variation	Location/Qualifiers
	602	/*tag= a /standard_name= "Single nucleotide polymorphism" /id="rs123456789"

Qy	121	CCAGGCATCAAGGCTTCCAGGAAAGATGGGGTGTGGCACCAAGCAGAAGGGG	180
Db	1012	CCAGGCATCAAGGCTTCCAGGAAAGATGGGGTGTGGCACCAAGCAGAAGGGG	1071
Qy	181	GAACCGGCCAAGGGCTCAAGGTTTACAAGGCCCCCTTGGAAAGTTGGGCTTCAGGA	240
Db	1072	GAACAGGCCAAGGGCTCAAGGTTTACAAGGCCCCCTTGGAAAGTTGGGCCCTCAGGA	1131
Qy	241	AATCAGGGCCTCTGGCTTACAGGACCAAAAGGGACCCCTGGAAAGT	300
Db	1132	AATCAGGGCCTCTGGCTTACAGGACCAAAAGGGACCCCTGGAAAGT	1191
Qy	301	CCGGATGGTATAGTCGCTGGCTCCCTGAAAGAAAGCTCTAACAGAAATGGCA	360

WPI: 2004-571194/55.

Predicting whether an individual having Systemic Inflammatory Response Syndrome (SIRS) will develop sepsis, useful for treating sepsis, comprises determining the mannose-binding lectin (MBL) genotype or concentration of MBL.

Claim 5: SEQ ID NO 26; 65pp; English.

The invention relates to a method to determine the risk factor of a person for sepsis, severe sepsis or septic shock by correlating MBL (mannose binding lectin) genotype with a predefined risk value. It discloses the connection between the MBL genotype of an individual having SIRS (Systemic Inflammatory Response Syndrome) and the risk of developing sepsis, severe sepsis or septic shock. It shows how a decreased level of MBL and lack of functional MBL are crucial to the development of sepsis and septic shock in an individual having sepsis. A MBL is an important factor in innate immune defence. MBL single nucleotide polymorphism in the form of the structural variant (codon 54, codon 55 and codon 57), and regulatory variant (low expression and high expression) were studied. This invention discloses that the MBL gene polymorphism's causes a reduction of the MBL level, which is associated with the development and progression of sepsis in adult intensive care patient. The invention offers a service to determine whether an individual belongs to a risk group and it provides the treatment accordingly. There is an increased risk of a fatal outcome of an individual carrying MBL variant alleles. A rapid determination of MBL genotype of patients is important in identifying individuals' at risk of developing sepsis, severe sepsis or septic shock. The MBL can be used for a medicament for the prevention and

b	11.92	CCGGATGGCTATGAGCTGGCTGGCTTCCCTCGAAAAGCTCTCAAAAGAGATGGCA	1225
y	3.61	CGTATCAAAGTGCTGACCTTCCTCTGGCAAACAGTTGGAACAGTTCTCTCTCTG	420
b	1252	CGTATCAAAGTGCTGACCTTCCTCTGGCAAACAGTTGGAACAGTTCTCTCTG	1311
y	4.21	ACCATTGGTAAATAATGACCTTCAAAGTGAAGGCCCTTGTGTCAAGTTCAAGGCC	480
o	1312	ACCATTGGTAAATAATGACCTTCAAAGTGAAGGCCCTTGTGTCAAGTTCAAGGCC	1371
y	4.81	TCTGGGCCACCCCCCAGGATGCTCCAGAACATGGAGCATTCAAACTCATCAAGGAG	540
o	1372	TCTGGGCCACCCCCCAGGATGCTCCAGAACATGGAGCATTCAAACTCATCAAGGAG	1431
y	5.41	GAAGCCCTCTGGGATCATGATGAGAACAGAAGGGGAGTTGTGGATCTGCAAGGA	600
o	1432	GAAGCCCTCTGGGATCATGATGAGAACAGAAGGGGAGTTGTGGATCTGCAAGGA	1491
y	6.01	AATAGACTGACCTACACAAACTGGAACGCCAACATGGCTGGTTCTGATGAA	660
o	1492	AATAGACTGACCTACACAAACTGGAACGCCAACATGGCTGGTTCTGATGAA	1551
y	6.61	GATTGTGATTGTGACTGTGAAATACTGGAACTGGATGACCTCCCTGCTCACCTCCAT	720
o	1552	GATTGTGATTGTGACTGTGAAATACTGGAACTGGATGACCTCCCTGCTCACCTCCAT	1611
y	7.21	CTGGCGTCCTGTAAGTTCCCTATCTGAA	747
o	1612	CTGGCGTCCTGTAAGTTCCCTATCTGAA	1638

RESULT 9			
A	AAZ07143	D	AAZ07143 standard; cDNA; 3605 BP.
C		T	
X		X	Human mannan-binding protein encoding cDNA.
C		X	Human: mannan-binding protein; hMBP; recombinant; inhibition; infection;
X		X	rimBMP; haemagglutination; influenza; HIV; primer; ss.
C		X	Homo sapiens.
X		X	Key
S		S	Location/Qualifiers
S		S	66 .812
S		S	/*tag= a
S		S	66 .115
S		S	sig_peptide

RESULT 10
ABN97210
ID ABN97210 standard; DNA; 3605 BP.
XX
AC ABN97210;
XX

The present invention describes recombinant human mannann-binding protein (rhMBP) having a molecular weight range of 1000-1300 or 200-400 kDa (by gel filtration with detection at 280 nm). rhMBP may be used as a component of drug compositions for the inhibition of haemagglutination and prevention of infection by viruses such as influenza and HIV. The present sequence encodes hMBP (human mannann-binding protein)

1	ATGTCCTGTTCCATCACTCCCTCCTTCTCTAGATGGAGCGCTTACTCA	60
66	ATGTCCTGTTCCATCACTCCCTCCTTCTCTAGATGGAGCGCTTACTCA	125
61	GAACTGTGACTCTGTAGGATGCCAAAAGACCTGGCTGAGTGTAGCTCT	120
126	GAACTGTGACTCTGTAGGATGCCAAAAGACCTGGCTGAGTGTAGCTCT	185
121	CCAGGCATCAAGGCTTCCAGGCAAAAGATGGCTGATGGCACCAAGGGAAAAGGG	180
186	CCAGGCATCAAGGCTTCCAGGCAAAAGATGGCTGATGGCACCAAGGGAAAAGGG	245
241	AATCCAGGGCCTTCTGGTCAACGGACCAAGGGCAAAAGGAAACCCCTGGAAAGTGCGCTCAGGA	300
306	AATCCAGGGCCTTCTGGTCAACGGACCAAGGGCAAAAGGAAACCCCTGGAAAGTGCGCTCAGGA	365
301	CGGGATGGTAGATGAGCCCTGGCTCAGAAAAGGCTCTGGCAAACAGAAATGGCA	360
366	CGGGATGGTAGATGAGCCCTGGCTCAGAAAAGGCTCTGGCAAACAGAAATGGCA	425
361	CGTATCAAAGTGGTAGCTTCTGGCAACCAAGTGGACAAGTCTCTCTG	420
426	CGTATCAAAGTGGTAGCTTCTGGCAACCAAGTGGACAAGTCTCTCTG	485
421	ACCAATGGTAATAATGACCTTGTAAAAAGTGAAGGCCCTTGTTGTCAGAACGCC	480
486	ACCAATGGTAATAATGACCTTGTAAAAAGTGAAGGCCCTTGTTGTCAGAACGCC	545
481	TCTGTGCCACCCCCAGGAATGCTGGAGAGAATGGGCCATTCAAGAACTCATCAAGGAG	540
546	TCTGTGCCACCCCCAGGAATGCTGGAGAGAATGGGCCATTCAAGAACTCATCAAGGAG	605
541	GAAGCCCTCTGGGATCACTGAGAGAGAGAGGGCAAGTTGTGATCTGAA	600
606	GAAGCCCTCTGGGATCACTGAGAGAGAGGGCAAGTTGTGATCTGAA	665
601	AATAGCTGACCTACAAACTGGAAAGGAGGTGAACCCAAACAATGCTGGTCTGTGAA	660
666	AATAGCTGACCTACAAACTGGAAAGGAGGTGAACCCAAACAATGCTGGTCTGTGAA	725
661	GATTGCTATGCTACTGAAAATGGCCAGTGGAAATGACGTCCTCCCTCAT	720
726	GATTGCTATGCTACTGAAAATGGCCAGTGGAAATGACGTCCTCCCTCAT	785
721	CTGGCGCTCTGTGAGTCCPCTPATCTGA	747
786	CTGGCGCTCTGTGAGTCCPCTPATCTGA	812

Qy	421	ACCAATGGTGAATAATTGACCTTTGAAAAAGTGAGGCCCTTCGTGTCAGTCAGGCC	480
Db	486	ACCAATGGTGAATAATTGACCTTTGAAAAAGTGAGGCCCTTCGTGTCAGTCAGGCC	545
Qy	481	TCTGTGCCACCCAGGAAATGCTGCAGCAATTGAGGCCATTGAGAATCTCATCAGAGG	540
Db	546	TCTGTGCCACCCAGGAAATGCTGCAGAAATSGAGCCATTGAGAATCTCATCAGAGG	605
Qy	541	GAAGCCCTTCCTGGCATCTGTGAAAGAACAGGGCAGTTGTGATCTGACAGGA	600
Db	606	GAAGCCCTTCCTGGCATCTGTGAAAGAACAGGGCAGTTGTGATCTGACAGGA	665
Qy	601	AATAGACTGACTACACAAACTGGAACAGGGTGAAACCAACATGCTGGTTCTGATCAA	660
Db	666	AATAGACTGACTACACAAACTGGAACAGGGTGAAACCAACATGCTGGTTCTGATCAA	725
Qy	661	GATTCGTTATGCTACTGAAATTGCCACTGTGAATGACTCCCTGCTCCAACCTCCCCAT	720
Db	726	GATTCGTTATGCTACTGAAATTGCCACTGTGAATGACTCCCTGCTCCAACCTCCCCAT	785
Qy	721	CRCGCCGCTGTGAGTTCCCTATCTGA	747
Db	786	CRCGCCGCTGTGAGTTCCCTATCTGA	812

RESULT 13
 ADR29057
 ID ADR29057 standard; DNA; 1632 BP.
 XX
 AC ADR29057;
 XX DT 21-OCT-2004 (first entry)
 XX DE Human MBL gene with variant structural allele (in codon 57).
 XX KW Sepsis; septic shock; severe; MBL; mannose binding lectin; SIRS;
 KW systemic inflammatory response syndrome; innate immune defence;
 KW bimodal nucleotide polymorphism; SNP; structural variant; regulatory;
 KW prophylaxis; sepsis Syndrome; infection susceptibility;
 KW multiple organ failure; MOF; multiple organ dysfunction; acute; gene;
 KW human

AA Homo sapiens.
 OS XX
 Key XX
 variation XX
 FH XX
 FT 1055 Location/Qualifiers
 FT /*tag= a /standard name= "Single nucleotide polymorphism"
 FT /note= "Variant structural allele"
 FT XX
 PN XX
 PN WO2004065626-A2.
 XX PD 05-AUG-2004.
 XX PF 16-JAN-2004; 2004WO-DK000027.
 XX PR 17-JAN-2003; 2003DK-00000042.
 PR 06-MAR-2003; 2003US-0453272P.
 XX PA (RIGS-) RIGHOSPITALET.
 PA (KOBE-) KOHENHAVNS AMT.
 PI Garred P, Madsen HO, Strom J;
 XX DR 2004-571694/55.
 XX Predicting whether an individual having Systemic Inflammatory Response
 PT Syndrome (SIRS) will develop sepsis, useful for treating sepsis,
 PT comprises determining the mannose-binding lectin (MBL) genotype or
 PT concentration of MBL.
 XX Claim 3; SEQ ID NO 22; 65pp; English.

The invention relates to a method to determine the risk factor of a person for sepsis, severe sepsis or septic shock by correlating MBL (mannose binding lectin) genotype with a predefined risk value. It discloses the connection between the MBL genotype of an individual having SIRS (Systemic Inflammatory Response Syndrome) and the risk of developing sepsis, severe sepsis or septic shock. It shows how a decreased level of MBL and lack of functional MBL are crucial to the development of sepsis and septic shock in an individual having sepsis. A MBL is an important factor in innate immune defence. MBL single nucleotide polymorphism in the form of the structural variant (codon 54, codon 52 and codon 57) and regulatory variant (low expression and high expression) were studied. This invention discloses that the MBL gene polymorphism's causes a reduction of the MBL level, which is associated with the development and progression of sepsis in adult intensive care patients. The invention offers a service to determine whether an individual belongs to a risk group and it provides the treatment accordingly. There is an increased risk of a fatal outcome of an individual carrying MBL variant alleles. A rapid determination of MBL genotype of patients is important in identifying individuals at risk of developing sepsis, severe sepsis or septic shock. The MBL can be used for a medicament for the prevention and treatment of specified diseases. The MBL variant allele is also associated with an increased risk of death. It raises the prospective of that MBL (MBL substitution) can be used in prophylaxis and treatment of sepsis syndrome. The frequency of MBL variant alleles is proportional to the severity of sepsis which indicates lacking buffering capacity of MBL towards initial microbial replication. It is not only associated with susceptibility of infection but also allows activation of host mechanisms central to the pathophysiology of the sepsis syndrome. The invention can also predict the risk for developing multiple organ failure (MOF), multiple organ dysfunction and acute organ dysfunction of an individual having SIRS. The high risk is characterised by the presence of at least one variant structural allele of the MBL gene and/or having two low expression regulatory alleles of the MBL gene in a sample. The presented sequence is the variant structural allele (in codon 57) of MBL (mannose binding lectin) gene from human.

Query	Match	Score	Length	D _B	D _A	Gaps	C
Best Local Matches	99.8%	954.4	13	0	0	0	0
Local Similarity	99.9%	Pred. No. 4.7e-207					
Conservative	0	Mismatches	1	Indels	0		
Matches 746;							
Qy	1	ATGTCCTGTTCCATCACTCCCCTCCCTCTCTCTCTGAGTATGGTGACGGTCTACTCA	60				
Db	886	ATGTCCTGTTCCATCACTCCCCTCCCTCTCTCTGAGTATGGTGACGGTCTACTCA	94				
Qy	61	GAATCTGTGACCTGTCAGGTGCGAAAAGACCTGCCCTCAGTATGGTGAGCTCT	124				
Db	946	GAATCTGTGACCTGTCAGGTGCGAAAAGACCTGCCCTCAGTATGGTGAGCTCT	100				
Qy	121	CCGGCATCAAGGCTTCCAGGGCAAGATGGCTGATGGCACAAAGGGAAAGGGG	181				
Db	1006	CCGGCATCAAGGCTTCCAGGGCAAGATGGCTGATGGCACAAAGGGAAAGGGG	101				
Qy	181	GAACCAGGCCAAGGGCTCAAGGGCTAACAGGCCCTGGAAAGTGGGGCTCCAGGA	241				
Db	1066	GAACCAGGCCAAGGGCTAACAGGCCCTGGAAAGTGGGGCTCCAGGA	111				
Qy	241	AATTCAGGGCCCTCTGGTCACCGAGACCAAGGGCCAAAAAGGAGACCTGGAAAGT	30				
Db	1126	AATTCAGGGCCCTCTGGTCACCGAGACCAAGGGCCAAAAAGGAGACCTGGAAAGT	11				
Qy	301	CCGGATGGTGTGATGTAAGCTGGCTCTGGCTCAGAAGAAACAGAATGGCA	36				
Db	1186	CCGGATGGTGTGATGTAAGCTGGCTCTGGCTCAGAAGAAACAGAATGGCA	12				
Qy	361	CGTATCAAAGGGGTCACCTTCTGGCAAAACAGTTGGACAAGTTCCTG	42				
Db	1246	CGTATCAAAGGGGTCACCTTCTGGCAAAACAGTTGGACAAGTTCCTG	13				
Qy	421	ACCATATGGCAATAATGAGCTTGTAAAAGTGAAGGCCTTGTGTGCAAGTTCCAGGCC	48				

b	1306	ACCAATGGTGAATAATGACCTTGTGAAAAGTGAAGGCCCTTGTGTCAAGTTCCAGGGCC	1365
y	481	TCTGTGGCCACCCCCAGGAATGGCTCGAGAAATGGAGCCATTCAAAATCTCATCAAGGG	540
b	1366	TCTGTGGCCACCCCCAGGAATGGCTCGAGAAATGGAGCCATTCAAAATCTCATCAAGGG	1425
y	541	GAAGCCTTCTGGATCACTGTAGAGAACAGAAGGGCAGTTGTGGAATCTGACAGGA	600
b	1426	GAAGCCTTCTGGGATCACTGTAGAGAACAGAAGGGCAGTTGTGGAATCTGACAGGA	1485
y	601	AATAGAATGACCTAGCAAATCTGGAAACGAGGGTGAAACCCAAACAACTGCTGTTCTGTGAA	660
b	1486	ATATGACTGACCTACAAATCTGGAAACGAGGGTGAAACCCAAACAACTGCTGTTCTGTGAA	1545
y	661	GATTGTGATTGTGCTACTGTGAAATACTGCCACTGGAAATGACGCTCCCTGTCACCTCCAT	720
b	1546	GATTGTGATTGTGCTACTGTGAAATACTGCCACTGGAAATGACGCTCCCTGTCACCTCCAT	1605
y	721	CTGGCGTCTGTGACTTCCCTATCGA	747
b	1606	CTGGCGTCTGTGACTTCCCTATCGA	1632

RESULT 14

DR29058 ADR29058 standard; DNA; 1638 BP.

ADR29058;

21-OCT-2004 (first entry)

Human MBL gene with variant structural allele (in codon 54).

Sepsis; septic shock; severe; MBL; mannose binding lectin; SIRS; systemic inflammatory response syndrome; innate immune defence; single nucleotide polymorphism; SNP; structural variant; regulatory; prophylaxis; sepsis syndrome; infection susceptibility; multiple organ failure; MOF; multiple organ dysfunction; acute; gene; ds;

Homo sapiens	Location/Qualifiers
Key variation	1052 a /*tag= "standard name= "Single nucleotide polymorphism" /note= "Variant structural allele"
	WO2004065626-A2.
	05-AUG-2004 .
	16-JAN-2004 ; 2004WO-DK000027.
	17-JAN-2003 ; 2003DK-0000042.
	06-MAR-2003 ; 2003US-0433272P.
	(RIGS-) RIGSHOSPITALET. (KOBEB-) KOBENHAVNS AMT.
	Garré P, Madsen HO, Strom J;
	WPI; 2004-571694/55.

Db	1372	TCTGTGCCCCAGGAATGCTGAAAGAATGGCCATTCAAACTCATGAGAG	1431
Qy	541	GAAGCCCTCCGGCATCTACTGTGAAACAGAGGCAGTTGGATCTGACAGGA	600
Db	1432	GAAGCCCTCCGGCATCTACTGTGAAACAGAGGCAGTTGGATCTGACAGGA	1491
Qy	601	AATAGACTGACTAACAAACTGGACGAGGTGACCCACAATGCTGGTTCTGATGAA	660
Db	1492	ATAGACTGACTAACAAACTGGACGAGGTGACCCACAATGCTGGTTCTGATGAA	1551
Qy	661	GATTGTGATGCTACTGAAAAATGCCAATGGAAATGACGTCACCTCCCAT	720
Db	1552	GATTGTGATGCTACTGAAAAATGCCAATGGAAATGACGTCACCTCCCAT	1611
Qy	721	CTGGCCCTGTGAGTCCCTATCTGA	747
Db	1612	CTGGCCCTGTGAGTCCCTATCTGA	1638

Search completed: June 20, 2005, 16:01:54
Job time : 545 secs

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1	747	100.0	900	3	US-09-198-603C-1
2	747	100.0	1340	4	Sequence 1, Appli
3	747	100.0	3605	4	Sequence 3499, Appli
4	374	50.1	8093	4	Sequence 36, Appli
5	374	50.1	10320	4	Sequence 15241, Appli
6	204.4	27.4	1211	3	Sequence 11778, Appli
C	7	188	25.2	601	Sequence 25, Appli
C	8	188	25.2	601	Sequence 18336, Appli
C	9	126	16.9	714	Sequence 124115, Appli
C	10	74	9.9	601	Sequence 26, Appli
C	11	74	9.9	601	Sequence 18337, Appli
C	12	73.4	9.8	1558	Sequence 18331, Appli
C	13	72	9.6	601	Sequence 1, Appli
C	14	72	9.6	601	Sequence 18342, Appli
C	15	67.6	9.0	885	Sequence 124321, Appli
C	16	67.6	9.0	924	Sequence 3, Appli
C	17	67.6	9.0	1005	Sequence 5, Appli
C	18	63.4	8.5	747	Sequence 9, Appli
C	19	62.8	8.4	369	Sequence 1, Appli
C	20	62.8	8.4	369	Sequence 24, Appli
C	21	62.8	8.4	384	Sequence 26, Appli
C	22	62.8	8.4	384	Sequence 7, Appli
C	23	62.8	8.4	417	Sequence 9, Appli
C	24	62.8	8.4	417	Sequence 10, Appli
C	25	62.8	8.4	423	Sequence 11, Appli
C	26	62.8	8.4	423	Sequence 13, Appli
C	27	62.8	8.4	561	Sequence 15, Appli

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OM nucleic - nucleic search, using sw model
Run on: June 19, 2005, 17:17:35 ; Search time 184 Seconds
(without alignments)
6642.928 Million cell updates/sec

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Perfect score: 747
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Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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4: /cgcn2_6/podata/1/ina/6B COMB. seq:
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6: /cgcn2_6/podata/1/ina/backfile1.seq:
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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Best Local Similarity 100.0%; Pred. No. 4; Length 108; Matches 374; Conservative 0; N mismatches 0; Indels 0; Gaps 0;

Qy 374 GGCTGACCTTCTCTGGCAAACAAAGTGGCAACTGATGCCATTGTGCTGTAGTCCT 185
 Db 5191 GGCTGACCTTCTCTGGCAAACAAAGTGGCAACTGATGCCATTGTGCTGTAGTCCT 433

Qy 434 TAATGACCTTGAAGAAAGTCAAGGCCTTGTCAGTCCAGGCAACTGATGCCACC 5250
 Db 5251 TAATGACCTTGAAGAAAGTCAAGGCCTTGTCAGTCCAGGCAACTGATGCCACC 493
 Qy 5310 TAATGACCTTGAAGAAAGTCAAGGCCTTGTCAGTCCAGGCAACTGATGCCACC 5310

Qy 494 CCAGGAATGTCGAGAATGGGCACTTCAAGATCTCATCAAGGGAAAGCCTTCCTGG 553
 Db 5311 CCAGGAATGTCGAGAATGGGCACTTCAAGATCTCATCAAGGGAAAGCCTTCCTGG 5370

Qy 554 GCATCACTGATGAG 613
 Db 5371 GCATCACTGATGAG 5430

Qy 614 ACACAAACTCGAACAGGGTGAACCAACAAATGGTTCTGATGAAGATTGGTATTCG 673
 Db 5431 ACACAAACTCGAACAGGGTGAACCAACAAATGGTTCTGATGAAGATTGGTATTCG 5490

Qy 674 TACTGAAAATGGCCAGTGGTAATGACTGCTCCCTGCTCCACCTCCATCTGGCGCTCTG 733
 Db 5491 TACTGAAAATGGCCAGTGGTAATGACTGCTCCCTGCTCCACCTCCATCTGGCGCTCTG 5550

Db 734 AGTCCCTATCTGA 747
 Db 5551 AGTCCCTATCTGA 5564

RESULT 5
 US-09-949-016-11778
 Sequence 11778, Application US/09949016
 Patent No. 6812319

; GENERAL INFORMATION:
 ; APPLICANT: VENTER, J. Craig et al.
 ; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
 ; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
 ; FILE REFERENCE: CL001307
 ; CURRENT APPLICATION NUMBER: US/09/949,016
 ; CURRENT FILING DATE: 2000-04-14
 ; PRIOR APPLICATION NUMBER: 60/1241,755
 ; PRIOR FILING DATE: 2000-10-20
 ; SEQ ID NO: 11778
 ; PRIORITY NUMBER: 60/237,758
 ; PRIORITY NUMBER: 60/231,498
 ; NUMBER OF SEQ ID NOS: 207012
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO: 11778
 ; LENGTH: 10320
 ; ORGANISM: Human
 ; US-09-949-016-11778

Query Match Score 374; DB 4; Length 10320;
 Best Local Similarity 100.0%; Pred. No. 5; Length 108; Matches 374; Conservative 0; N mismatches 0; Indels 0; Gaps 0;

Qy 374 GGCTGACCTTCTCTGGCAAACAAAGTGGCAACTGATGCCATTGTGCTGTAGTCCT 185
 Db 5191 GGCTGACCTTCTCTGGCAAACAAAGTGGCAACTGATGCCATTGTGCTGTAGTCCT 433

Qy 434 TAATGACCTTGAAGAAAGTCAAGGCCTTGTCAGTCCAGGCAACTGATGCCACC 5250
 Db 5251 TAATGACCTTGAAGAAAGTCAAGGCCTTGTCAGTCCAGGCAACTGATGCCACC 5310

Qy 494 CCAGGAATGTCGAGAATGGGCACTTCAAGATCTCATCAAGGGAAAGCCTTCCTGG 553
 Db 5311 CCAGGAATGTCGAGAATGGGCACTTCAAGATCTCATCAAGGGAAAGCCTTCCTGG 5370

Query Match Score 374; DB 4; Length 8093;
 Best Local Similarity 100.0%; Pred. No. 4; Length 108; Matches 374; Conservative 0; N mismatches 0; Indels 0; Gaps 0;

Qy 374 GGCTGACCTTCTCTGGCAAACAAAGTGGCAACTGATGCCATTGTGCTGTAGTCCT 185
 Db 5191 GGCTGACCTTCTCTGGCAAACAAAGTGGCAACTGATGCCATTGTGCTGTAGTCCT 433

Qy 434 TAATGACCTTGAAGAAAGTCAAGGCCTTGTCAGTCCAGGCAACTGATGCCACC 5250
 Db 5251 TAATGACCTTGAAGAAAGTCAAGGCCTTGTCAGTCCAGGCAACTGATGCCACC 5310

Qy 494 CCAGGAATGTCGAGAATGGGCACTTCAAGATCTCATCAAGGGAAAGCCTTCCTGG 553
 Db 5311 CCAGGAATGTCGAGAATGGGCACTTCAAGATCTCATCAAGGGAAAGCCTTCCTGG 5370

Query Match Score 374; DB 4; Length 8093;
 Best Local Similarity 100.0%; Pred. No. 4; Length 108; Matches 374; Conservative 0; N mismatches 0; Indels 0; Gaps 0;

Qy 374 GGCTGACCTTCTCTGGCAAACAAAGTGGCAACTGATGCCATTGTGCTGTAGTCCT 185
 Db 5191 GGCTGACCTTCTCTGGCAAACAAAGTGGCAACTGATGCCATTGTGCTGTAGTCCT 433

Qy 434 TAATGACCTTGAAGAAAGTCAAGGCCTTGTCAGTCCAGGCAACTGATGCCACC 5250
 Db 5251 TAATGACCTTGAAGAAAGTCAAGGCCTTGTCAGTCCAGGCAACTGATGCCACC 5310

Qy 494 CCAGGAATGTCGAGAATGGGCACTTCAAGATCTCATCAAGGGAAAGCCTTCCTGG 553
 Db 5311 CCAGGAATGTCGAGAATGGGCACTTCAAGATCTCATCAAGGGAAAGCCTTCCTGG 5370

Qy 554 GCATCACTGATGAGAAGCAGAAGGGCGTTGTGGATCTGACAGGAATAAGACTGACT 613
 Db 5371 GCATCACTGATGAGAAGCAGAAGGGCGTTGTGGATCTGACAGGAATAAGACTGACT 5430
 Qy 6114 ACACAAACTGGAACGAGGTGAACCCAAACAATGCTGTCTGATGAGATTGTATTGC 673
 Db 5431 ACACAAACTGGAACGAGGTGAACCCAAACAATGCTGTCTGATGAGATTGTATTGC 5490
 Qy 674 TACTGAAATAATGCCAGTGGAAATGACGCCCTGCTCACCTCCCATCTGCCCTCTG 733
 Db 5491 TACTGAAATAATGCCAGTGGAAATGACGCCCTGCTCACCTCCCATCTGCCCTCTG 5550
 Qy 734 AGTTCCTPATCTGA 747
 Db 5551 AGTTCCTPATCTGA 5564

RESULT 6
 US-09-198-603C-25
 ; Sequence 25; Application US/09198603C
 ; GENERAL INFORMATION:
 ; Patent No. 623193
 ; FILE REFERENCE: A7200
 ; APPLICANT: TULLY, Raymond E.
 ; APPLICANT: CALTAGIRONE, G. Thomas
 ; APPLICANT: MOYER, Shawn S.
 ; APPLICANT: RONNING, Michael T.
 ; TITLE OF INVENTION: EXPRESSION OF MANNOSE-BINDING PROTEIN IN METHYLOTROPHIC
 ; CURRENT APPLICATION NUMBER: US/09/198,603C
 ; CURRENT FILING DATE: 1998-11-24
 ; NUMBER OF SEQ ID NOS: 26
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO: 25
 ; LENGTH: 1211
 ; TYPE: DNA
 ; ORGANISM: Mouse
 ; US-09-198-603C-25

Query Match 27.4%; Score 204.4%; DB 3; Length 1211;
 Best Local Similarity 71.7%; Pred. No. 1.7e-54; Mismatches 0; Indels 0; Gaps 0;
 Matches 268; Conservative 0; Mismatches 106; Indels 0; Gaps 0;

Qy 374 GGCTGACCTCTCTCTGGCCAAACAGTTGGACAACTGGCTCTGACCAATGGTCAA 433
 Db 576 GGTTGCTCTCTCTGAGTGAAGAAGTGCAGTAAAGAAGTTTGTGCAAGTAA 635
 Qy 434 TAATGACATTTGAAAAGTGAGGGCTTGTGTCAAGTTCCAGGCTCTGTCACCC 493
 Db 6336 AGATGACCTGTAGATGAGTCAAGGCCATCCAGAAACTCGGCCATCCAGAAGTGGCAAGATAATTGCT 755
 Qy 494 CCAGGAATGTCGAGAGAATGGAGCAATTCAGAACTCTCAAGGAGATTGTTGCAAGGAGGCCCTTCCTGG 553
 Db 696 CCAGGGATGTCGAGAAACTCGGCCATCCAGAAGTGGCAAGATAATTGCT 755
 Qy 554 GCATCACTGATGAGAAGCAGAAGGGCGTTGTGGATCTGACAGGAATAAGACTGACT 613
 Db 756 GCATCACTGATGAGTGAAGCAAGTTGTGAGATCTGACAGGAATAAGACTGACT 815
 Qy 6114 ACACAAACTGGAACGAGGTGAACCCAAACAATGCTGTCTGATGAGATTGTATTGC 673
 Db 816 ATACATTTGAAATGATGGGAAGTGGCAACACAGGGCATGGGAAGACTGTCGTC 875
 Qy 674 TACTGAAATAATGCCAGTGGAAATGACGCCCTGCTCACCTCCCATCTGCCCTCTG 733
 Db 876 TCTTGGGAAATGGCAAGTGGACATGTCCTGACTCTTGTGCAATATGTC 935
 Qy 734 AGTTCCTPATCTGA 747
 Db 936 AATTCTCTGACTG 949

US-09-949-016-18336/C
 ; Sequence 18336; Application US/09949016
 ; Patient No. 68123139
 ; GENERAL INFORMATION:
 ; APPLICANT: VENTIER, J. Craig et al.
 ; TITLE OF INVENTION: IN KNOWN GENES ASSOCIATED WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
 ; FILE REFERENCE: CL001307
 ; CURRENT APPLICATION NUMBER: US/09/949,016
 ; CURRENT FILING DATE: 2000-04-14
 ; PRIOR APPLICATION NUMBER: 60/241,755
 ; PRIOR FILING DATE: 2000-10-20
 ; PRIOR APPLICATION NUMBER: 60/237,768
 ; PRIOR FILING DATE: 2000-10-03
 ; PRIOR APPLICATION NUMBER: 60/231,498
 ; PRIOR FILING DATE: 2000-10-03
 ; NUMBER OF SEQ ID NOS: 207012
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO: 18336
 ; LENGTH: 601
 ; TYPE: DNA
 ; ORGANISM: Human
 ; US-09-949-016-18336

Query Match 25.2%; Score 188; DB 4; Length 601;
 Best Local Similarity 100.0%; Pred. No. 1.9e-49; Mismatches 0; Indels 0; Gaps 0;

RESULT 7

RESULT 9
US-09-198-603C-26
Sequence 26; Application US/09198603C
; Parent No. 6337193
; GENERAL INFORMATION:
; APPLICANT: TULLY, Raymond E.
; CALIFORNIA, G. Thomas
; MOYER, Shawn S.
; APPLICANT: RONNING, Michael T.
; TITLE OF INVENTION: EXPRESSION OF MANNOSE-BINDING PROTEIN IN METHYLOTROPHIC YEAST
; FILE REFERENCE: A7290.
; CURRENT APPLICATION NUMBER: US/09/198,603C
; CURRENT FILING DATE: 1998-11-24
; NUMBER OF SEQ ID NOS: 26
; SEQ ID NO: 26
; LENGTH: 714
; TYPE: DNA
; ORGANISM: CHICKEN
US-09-198-603C-26

Query Match 79 GATGCCAAAGACCTGCCCCCTGCACTGATTCCTGATCCAGGATCAACGGTTC 138
Best Local Similarity 16.9%; Score 126; DB 3; Length 714;
Matches 351; Conserved 0; Mismatches 0; Indels 21; Gaps 3;

Qy 79 CCAGGAAAGATGGTATGTTCTGCTTGTGATGGCACAAAGGAGAAAGGGGAACGGCCAAAGGCTC 198
Db 97 CGAGGCAAGATGGAGATGGTCCAAAGGGAAAAGSGAACCCAGGAGGAGGACTG 156

Qy 199 AGAGGCTTACAGGGCCCTCTGGAAAGTGGGCCCTCAGGAAATTCAAGGCCCTCTGGG 258
Db 157 AGAGGTGTGCAAGGGTTGCTGGAAAGAAGGACCCAAAGGATAAAAGAGGTGGAA 216

Qy 259 TCACCAAGGACCAAAGGCCAAAGGACCCGAA-----AAAGTCGGAT 306
Db 217 CCACAAAGGAGAAAGCTCAAAAGGAGAAGCTGAACTGTGACCTGCAC 276

Qy 307 GGTGATAGTACCCCTGCTGCTGCTGAAAGCATGGCAATGGCACTGATC 366
Db 277 CGACAAATACTGATGGAGAAATACTGGPATGGAGATGATGGTGTCAACT 336

Qy 367 AAAAAGCTGGCTGACCTCTCTGGGAAACAGCTGGAAAGCTCTTCCTGACCAAT 426
Db 337 AAAAAGCCTGTGAGTTAAAGCAGTGTAAACATGGTAAATAATGGTGTCAACT 396

Qy 427 CGTGAAATACTGACCTTGAAAGTGAAGGCCCTCTGTCAAGTCCGGCTCTGTG 486
Db 397 GGAAAGAAATAATTGAAAAGGGAAAATCCCTTGTGAAANGCTGAAAGTGTGCTT 456

Qy 487 GCCACCCCGAAATGTCGAGAGATGGGCCATTCACTCAAGATCTCATCAAG-----GAG 540

RESULT 10
US-09-198-603C-26
Sequence 18337; Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIORITY NUMBER: 60/241,755
; PRIORITY NUMBER: 60/237,768
; PRIORITY NUMBER: 60/241,755
; PRIORITY NUMBER: 60/231,498
; PRIORITY NUMBER: 60/231,498
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 18337
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-18337

Query Match 115 AGCTCTCCAGGCATCAACGGCTTCCAGGAAAGATGGCCATGGCCACAAAGGGAGAA 174
Db 601 AGCTCTCCAGGCATCAACGGCTTCCAGGAAAGATGGCCATGGCCACAAAGGGAGAA 542

Qy 116 AGCTCTCCAGGCATCAACGGCTTCCAGGAAAGATGGCCATGGCCACAAAGGGAGAA 174
Db 601 AGCTCTCCAGGCATCAACGGCTTCCAGGAAAGATGGCCATGGCCACAAAGGGAGAA 542

RESULT 11
US-09-198-603C-26
Sequence 124316; Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIORITY NUMBER: 60/241,755
; PRIORITY NUMBER: 60/241,755
; PRIORITY NUMBER: 60/237,768
; PRIORITY NUMBER: 60/237,768

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; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO: 124316
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-124316

Query Match 9.9%; Score 74; DB 4; Length 601;
Best Local Similarity 100.0%; Pred. No. 4e-13; Indels 0; Gaps 0;
Matches 74; Conservative 0; Mismatches 0; Gaps 0;
Qy 115 AGCTCTCAGGCTCATCAAGCTTCCAGCAANGATGGCGATGGACCAAGGGAA 174
Db 601 AGCTCTCAGGCTCATCAAGCTTCCAGCAANGATGGCGATGGACCAAGGGAA 542
Qy 175 AAGGGGAACCGG 188
Db 541 AAGGGGAACCGG 528

RESULT 12
US-09-198-603C-24
; Sequence 24, Application US/09198603C
; Patent No. 6337193
; GENERAL INFORMATION:
; APPLICANT: TULLY, Raymond E.
; APPLICANT: CALTAGIRONE, G. Thomas
; APPLICANT: MOYER, Shawn S.
; APPLICANT: RONNING, Michael T.
; TITLE OF INVENTION: EXPRESSION OF MANNOSE-BINDING PROTEIN IN METHYLOTROPHIC
; YEAST
; FILE REFERENCE: A7290
; CURRENT APPLICATION NUMBER: US/09/198,603C
; CURRENT FILING DATE: 1998-11-24
; NUMBER OF SEQ ID NOS: 26
; SEQ ID NO: 24
; LENGTH: 1558
; TYPE: DNA
; ORGANISM: RAT
US-09-198-603C-24

Query Match 9.8%; Score 73.4; DB 3; Length 1558;
Best Local Similarity 77.4%; Pred. No. 1.e-12; Indels 0; Gaps 0;
Matches 89; Conservative 0; Mismatches 26; Gaps 0;
Qy 185 CAGGCCAAGGGCTCAGGGTTACAGGCCCTCCAGAAATC 244
Db 1173 CAGGTCAAGGGCTCAGGGTTACAGGCCCTCCAGGAATC 1232
Qy 245 CAGGGCCTTCGGTCAACCAGGACCAAGGGCCAAGGGAAAAAG 299
Db 1233 TAGGACCCCTGAAAGCAAGGACCAAAAGGCCAAAGGGATGGAGACAG 1287

RESULT 13
US-09-949-016-18342/C
; Sequence 18342, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: C1001307
; CURRENT APPLICATION NUMBER: US/09/949, 016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-0-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO: 124321
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-124321/C
; Sequence 124321, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: C1001307
; CURRENT APPLICATION NUMBER: US/09/949, 016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-0-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO: 124321
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-124321

RESULT 14
US-09-949-016-124321/C
; Sequence 124321, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: C1001307
; CURRENT APPLICATION NUMBER: US/09/949, 016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-0-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO: 124321
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-124321

Query Match 9.6%; Score 72; DB 4; Length 601;
Best Local Similarity 93.8%; Pred. No. 1.7e-12; Indels 5; Mismatches 0; Gaps 0;
Matches 75; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
Qy 295 AAAAGTCCGGATGGTATACTAGGCCCTGGCTCAGAACAGAA 354
Db 129 ATTTCCTAGGGTATAGCTGCTTGTAGCTGCTTGTGCAAAAGAA 70
Qy 355 ATGGCACGTATCAAAGTG 374
Db 69 ATGGCACGTATCAAAGTG 50

RESULT 15
US-08-365-103B-3
; Sequence 3, Application US/08365103B
; Patent No. 5766943
; GENERAL INFORMATION:
; APPLICANT: Lynch, Richard G.
; APPLICANT: Munoz, Rafael D.
; APPLICANT: Yodoi, Jungi
; TITLE OF INVENTION: DNA Sequences for Soluble Forms of CD23
; FILE REFERENCE: C1001307
; CURRENT APPLICATION NUMBER: US/09/949, 016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:

```

ADDRESSER: Zarley, McKee, Thomte, Voorhees & Sease
 STREET: 801 Grand Ave. Suite 3200
 CITY: Des Moines
 STATE: Iowa
 COUNTRY: United States
 ZIP: 50309

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent in Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/365,103B
 FILING DATE: 28-DEC-1994
 CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: Nebel, Heidi S.
 REGISTRATION NUMBER: 37,719
 REFERENCE/DOCKET NUMBER: UIRF N5-24

TELECOMMUNICATION INFORMATION:

TELEPHONE: (515) 288-3667
 TELEFAX: (515) 288-1338
 INFORMATION FOR SEQ ID NO: 3:

SEQUENCE CHARACTERISTICS:
 LENGTH: 885 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear

MOLECULE TYPE: cDNA
 HYPOTHETICAL: NO
 ANTI-SENSE: NO

FEATURE:

NAME/KEY: CDS
 LOCATION: 24..884

US-08-365-103B-3

	Query Match	Score 67.6;	DB 1;	Length 885;
Qy	Best Local Similarity 55.6%;	Pred. No. 5.5e-11;	Matches 130;	Conservative 0;
Db	Matches 104;	Nimatches 104;	Indels 0;	Gaps 0;
Qy	484 GTGGCCA CCCCAAGGATGCTGCAGAAATGGCCATTAGAAATCTCATCAAGGAGAA	543		
Db	567 GTCAGCA TCCAGCAAGGA AAGGA CAGACTTCTGTATGACATCAAGAAGAT	626		
Qy	544 GCCTTCCTGGCATCACTGTAGAGAAGAACGAAAGGCCAATTGCGATCTGACAGGA	603		
Db	627 TCCCTGGATTGCCCTGGATCTCAATATCGAGGAGAGTTGATGGTGGACCGGAGC	686		
Qy	604 AGACTGACCTACACAACTGGAACCGGGTAACCAAACATGCTGTTCTGATSAAGAT	663		
Db	687 CCTGTTGGTTATAGCACTGAAATCAGGGAGCCATAACGGGGCCAGGTTGAGAC	746		
Qy	664 TGTGTATGCTACTGAAAATGGCCAGTGGATAGCTCCCTGCTCACCTCC	717		
Db	747 TGTGTATGATGGCGGGATGGCAAGAACGCGCTTCGCGAGCTAC	800		

Search completed: June 20, 2005, 17:05:13
 Job time : 185 secs

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Query 1 ATGGTCCCTGTTCCATCACTCCCTCTCCCTTCCTCTCAGTATGGTGCGAGCGTCTTACTCA 60
 Query 1 ATGGTCCCTGTTCCATCACTCCCTCTCCCTTCCTCTCAGTATGGTGCGAGCGTCTTACTCA 60
 Db 61 GAAACTGTGACCTGTGAGATGCCAAAAGACCTGCCCTGCGAAGTGTGATTGCCCTGTAGCTCT 120
 Db 61 GAAACTGTGACCTGTGAGATGCCAAAAGACCTGCCCTGCGAAGTGTGATTGCCCTGTAGCTCT 120
 Qy 121 CCAGGCATCAACCGCTTCCAGGGCAAAGATGGCGTGTGATGGACCAAGGGAAANGGG 180
 Db 121 CCAGGCATCAACCGCTTCCAGGGCAAAGATGGCGTGTGATGGACCAAGGGAAANGGG 180
 Qy 181 GAACCGGCCAAGGGCTTACAGGCCCTGGGGCTCCAGGA 240
 Db 181 GAACCGGCCAAGGGCTTACAGGCCCTGGGGCTCCAGGA 240
 Qy 241 AATCCAGGCCCTCTGGTCAACGGCCAAGGGCCCTGGAAAGGT 300
 Db 241 AATCCAGGCCCTCTGGTCAACGGCCAAGGGCCCTGGAAAGGT 300
 Qy 301 CCGCATGGTGTATACTGGCTGCTGATAGTGGCTGCTGCTGAGAGAACAGAAATGCCA 360
 Db 301 CCGCATGGTGTATACTGGCTGCTGATAGTGGCTGCTGCTGAGAGAACAGAAATGCCA 360
 Qy 361 CGTATCAAAGGGCCCTGGTCAACAGGTTGGAAACAGAAATGCCA 420
 Db 361 CGTATCAAAGGGCCCTGGTCAACAGGTTGGAAACAGAAATGCCA 420
 Qy 421 ACCATGGTCAAATAATGACCTTGTGTCAGTCCAGGCC 480
 Db 421 ACCATGGTCAAATAATGACCTTGTGTCAGTCCAGGCC 480
 Qy 481 TCTGTTGGCCACCCCAAGGATGTCAGATGGCCATTAGAAAGTCATCAAGG 540
 Db 481 TCTGTTGGCCACCCCAAGGATGTCAGATGGCCATTAGAAAGTCATCAAGG 540
 Qy 541 AAATAGACTGCTTCCCTGGCATACTGTAGATGGCTGAGCGA 600
 Db 541 AAAGGCTTCCCTGGCATACTGTAGATGGCTGAGCGA 600
 Qy 601 AAATAGACTGCTTCCCTGGCATACTGTAGATGGCTGAGCGA 660
 Db 601 AAATAGACTGCTTCCCTGGCATACTGTAGATGGCTGAGCGA 660
 Qy 661 GATTGTGATGCTGACTGAAATAATGGCAGTGGAAATGAGCTCCCTCCAT 720
 Db 661 GATTGTGATGCTGACTGAAATAATGGCAGTGGAAATGAGCTCCCTCCAT 720
 Qy 721 CTGGCCCTCTGTGAGTCCCTATCTGA 747
 Db 721 CTGGCCCTCTGTGAGTCCCTATCTGA 747
 Db 721 CTGGCCCTCTGTGAGTCCCTATCTGA 747

RESULT 2
 US-10-500-774-2
 ; Sequence 2, Application US/10500774
 ; Publication No. US20050123895A1
 ; GENERAL INFORMATION:
 ; APPLICANT: FUSO PHARMACEUTICAL INDUSTRIES, LTD.
 ; TITLE OF INVENTION: Anti-HIV Agent
 ; FILE REFERENCE: 0P451WO
 ; CURRENT FILING DATE: 2004-07-06
 ; PRIOR APPLICATION NUMBER: JP 2002-189534
 ; PRIORITY FILING DATE: 2002-06-28
 ; NUMBER OF SEQ ID NOS: 3
 ; SEQ ID NO 2
 ; LENGTH: 747
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; US-10-500-774-2

Query Match 100.0% Score 747; DB 22; Length 747;
 Best Local Similarity 100.0%; Pred. No. 2. 9e-234;
 Matches 747; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

RESULT 3
 US-09-880-107-3705
 ; Sequence 3705, Application US/09880107
 ; Patent No. US2002012981A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Horre, Darcie T.
 ; APPLICANT: Vockley, Joseph G.
 ; APPLICANT: Scherf, Uwe
 ; APPLICANT: Gene Logic, Inc.
 ; TITLE OF INVENTION: Gene Expression Profiles in Liver Cancer
 ; FILE REFERENCE: 44921-508-WO
 ; CURRENT APPLICATION NUMBER: US/09/880,107
 ; CURRENT FILING DATE: 2001-06-14
 ; PRIOR APPLICATION NUMBER: US 60/211,379
 ; PRIOR FILING DATE: 2000-06-14
 ; PRIORITY NUMBER: US 60/237,054
 ; PRIOR FILING DATE: 2000-06-02
 ; NUMBER OF SEQ ID NOS: 3950
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 3705

Db	786	CAGCCGCTGTAGTCCTATCTGA	812	Db	666	AATAGACTGACCTAACAAACTGGAAACGAGGGTCAACCCAACATGCTGGTTCTGATGAA	725
				Qy	661	GATTGTGTAATGCTGACTGAAAAAATGCCAGTGGAAATGAGTCCTGGTCCACCTCCAT	720
				Db	726	GATTGTGTAATGCTGACTGAAAAAATGCCAGTGGAAATGAGTCCTGGTCCACCTCCAT	785
				Qy	721	CTGGCGTCTGTGACTTCCTATCGA	747
				Qy	786	CTGGCGTCTGTGACTTCCTATCGA	812
					RESULT 6		
					US-10-500-774-1		
					; Sequence 1, Application US-10500774		
					; Publication No. US2005012399A1		
					; GENERAL INFORMATION:		
					; APPLICANT: FUSO PHARMACEUTICAL INDUSTRIES, LTD.		
					; TITLE OF INVENTION: Anti-HIV Agent		
					; FILE REFERENCE: 03P451WO		
					; CURRENT APPLICATION NUMBER: US-10/500,774		
					; PRIORITY FILING DATE: 2004-07-06		
					; PRIOR APPLICATION NUMBER: JP 2002-139534		
					; PRIORITY FILING DATE: 2002-06-28		
					; NUMBER OF SEQ ID NOS: 3		
					; SEQ ID NO: 1		
					; LENGTH: 3605		
					; TYPE: DNA		
					; ORGANISM: Homo sapiens		
					; ORIGIN: Homo sapiens		
					; LENGTH: 3605		
					; US-10-500-774-1		
					Query Match		
					Best Local Similarity		
					100.0%; Pred. No. 6e-234;		
					0; Mismatches		
					0; Indels		
					0; Gaps		
					0; Gaps		
					Matches 747; Conservative		
					0; Mismatches		
					0; Indels		
					0; Gaps		
					0; Gaps		
					Score 747; Length 3605;		
					; US-10-500-774-1		
					Query Match		
					Best Local Similarity		
					100.0%; Score 747; Length 3605;		
					; US-10-500-774-1		
Qy	1	ATGTCCTCTTCATCATCCTCCCTCTCCCTGACTGGCGTCTTACTCA	60	Qy	1	ATGTCCTCTTCATCATCCTCCCTCTCCCTGACTGGCGTCTTACTCA	60
Db	66	ATGTCCTCTTCATCATCCTCCCTCTCCCTGACTGGCGTCTTACTCA	125	Db	66	ATGTCCTCTTCATCATCCTCCCTCTCCCTGACTGGCGTCTTACTCA	125
Qy	61	GAAGCTGACCTGAGATGCCAAAAGACCTGCGCCAGTGGCGCTAGCT	120	Qy	61	GAAGCTGACCTGAGATGCCAAAAGACCTGCGCCAGTGGCGCTAGCT	120
Db	126	GAAGACTGTGACCTGTGAGGTGGATCCAAAAGACCTTCCCTGAGCT	185	Qy	61	GAAGCTGACCTGAGATGCCAAAAGACCTGCGCCAGTGGCGCTAGCT	120
Qy	121	CCAGGATCAACGGCTCCAGGGCAAGATGGCGCTGAGTGGCGACA	180	Db	126	GAAGACTGTGACCTGTGAGGTGGATCCAAAAGACCTGCGCTAGCT	185
Db	186	CCAGGCATCAACGGCTTCCAGGGCAAGATGGCGCTGAGTGGCGACA	245	Qy	121	CCAGGCATCAACGGCTCCAGGGCAAGATGGCGCTGAGTGGCGACA	180
Qy	181	GAACCCAGGCCAAGGGCTCAGGGCTTCAAGGGCCCCCTCTGCAA	240	Db	186	CCAGGCATCAACGGCTTCCAGGGCAAGATGGCGCTGAGTGGCGACA	245
Db	246	GAACCCAGGCCAAGGGCTCAGGGCTTCAAGGGCCCCCTCTGCAA	305	Qy	181	GAACCCAGGCCAAGGGCTTCAAGGGCCCCCTCTGCAAAGTGGCGACA	240
Qy	241	AATCCAGGGCTTCTGGTACCCAGGACCAAAAGGGCCAAAAGGAAAGT	300	Db	246	GAACCCAGGCCAAGGGCTTCAAGGGCCCCCTCTGCAAAGTGGCGACA	305
Qy	306	AATCCAGGGCTTCTGGTACCCAGGACCAAAAGGGCCAAAAGGAAAGT	365	Qy	241	AATCCAGGGCTTCTGGTACCCAGGACCAAAAGGGCCAAAAGGAAAGT	300
Qy	301	CGGATGTTGATACTGGTACCCAGGACCAAAAGGGCCAAAAGGAAAGT	360	Db	306	AATCCAGGGCTTCTGGTACCCAGGACCAAAAGGGCCAAAAGGAAAGT	365
Db	366	CGGATGTTGATACTGGTACCCAGGACCAAAAGGGCCAAAAGGAAAGT	425	Qy	301	CGGATGTTGATACTGGTACCCAGGACCAAAAGGGCCAAAAGGAAAGT	360
Qy	361	CCTATCAAAGTGGTACCCAGGACCAAAAGGGCCAAAAGGAAAGT	420	Db	366	CGGATGTTGATACTGGTACCCAGGACCAAAAGGGCCAAAAGGAAAGT	425
Db	426	CCTATCAAAGTGGTACCCAGGACCAAAAGGGCCAAAAGGAAAGT	485	Qy	361	CCTATCAAAGTGGTACCCAGGACCAAAAGGGCCAAAAGGAAAGT	420
Qy	421	ACCAATGCTGAAATAATGACCCCTTGAAAGAAGCCCTGCTGCAA	480	Db	426	CCTATCAAAGTGGTACCCAGGACCAAAAGGGCCAAAAGGAAAGT	485
Db	486	ACCAATGCTGAAATAATGACCCCTTGAAAGAAGCCCTGCTGCAA	545	Qy	421	ACCAATGCTGAAATAATGACCCCTTGAAAGAAGCCCTGCTGCAA	480
Qy	481	TCTGTGGCCACCCAGGACCTCTGGCAAGATGGCGAGCTTCTGTC	540	Db	486	ACCAATGCTGAAATAATGACCCCTTGAAAGAAGCCCTGCTGCAA	545
Db	546	TCTGTGGCCACCCAGGACCTCTGGCAAGATGGCGAGCTTCTGTC	605	Qy	481	TCTGTGGCCACCCAGGACCTCTGGCAAGATGGCGAGCTTCTGTC	540
Qy	541	GAAGCCCTCTGGCATCACATGAGAACAGGGCTGCTGCAA	600	Db	546	TCTGTGGCCACCCAGGACCTCTGGCAAGATGGCGAGCTTCTGTC	605
Db	606	GAAGCCCTCTGGCATCACATGAGAACAGGGCTGCTGCAA	665	Qy	541	GAAGCCCTCTGGCATCACATGAGAACAGGGCTGCTGCAA	600
Qy	601	AATAGATGCTGACCTACAAACTGGAAACGCCAACATGCTGGTTC	660	Db	606	GAAGCCCTCTGGCATCACATGAGAACAGGGCTGCTGCAA	665

QY 481 TCTCTGGCCACCCCCAGGAATGTCAGAAGATGGACCATTCAGATCTCATCAAGGG 540
 Db 421 TCTGTGGCCACCCCCAGGAATGTCAGAAGATGGACCATTCAGATCTCATCAAGGG 480
 QY 541 GAACCCCTCTGGCCATACTGTGAGAAGAGAACAGGACTTGTGATCTGAGGA 600
 Db 481 GAACCCCTCTGGCCATACTGTGAGAAGAGAACAGGACTTGTGATCTGAGGA 540
 QY 601 AATAGACTGACCTACACAACACTGAAACCCAAACATGTTCTGTGAA 660
 Db 541 AATAGACTGACCTACACAACACTGAAACCCAAACATGTTCTGTGAA 600
 QY 661 GATGTGATTGTGACTGAAATGGCAGTGTGAACTGCTCCAT 720
 Db 601 GATGTGATTGTGACTGAAATGGCAGTGTGAACTGCTCCAT 660
 QY 721 CTGGCGCTGTGAGTTCCCTATC 744
 Db 661 CTGGCGCTGTGAGTTCCCTATC 684
 Db 595 AAAAGTCGGATGGTACTAGCCGATGGCTGGCTAGAGAGAAAGCTGCTGCACAAACAGA 354
 QY 313 GAAATATGGTGACTATTCCTGGCTGACTGAGAAACTCTACATCTGAA 372
 Db 355 ATGGCACATATCAAAGTGGCTGCCCTCTCTCTGGAAACAGTGGAAACAGTC 414
 Db 373 TTGAACCAGATCAAACCTGGCTAACTCTGGCAAAAGTGGAAACAGAGGGCA 432
 QY 415 TTCCCTACCAATGGTAATAATGACCTTGTGAAAGAAGTGGCTGGTGTGAGTC 474
 Db 433 TTTCCTACCAATGGTAATAAGATGCCCTTAATGAGTGAGAGACCTGTGAGTC 492
 QY 475 CAGGCCCTGTGGCACCCCGGATGTGCAAGGATGAGGCAATTGAGATCTCATC 534
 Db 493 CAGGCCCTGTGGCACCCCGGATGTGCAAGGCAAGGGCAAGTTGAGATCTG 552
 QY 535 AAGGAGGAAGCCTTCTGGGATCAGTGTGAGAGACAGAAGGGCAAGTTGAGATCTG 594
 Db 553 ACTGAAGGGCTTCTGGCATCACAGTCAGATCGAGACTGAAAGAAATTGTGAGATCTG 612
 QY 595 ACAGGAAATAAGACTGACCTACACAACACTGGCAAGGGTGAACCCACAGTGGCTCTCT 654
 Db 613 ACAGGAAAGGGGTGACCTACAAACTGGATGTGCAAGGGCTTCAACAGCTCTCTCT 672
 QY 655 GATGAGAGATTGTGTTATGCTACTGAAAAATGGCCTGAAATGAGCTGGCTCCACC 714
 Db 673 GCGGAGCACTGTGACACTCTGTGGACATGGATGTGCAAGGGCTTCAACAGCTCTCT 732
 QY 715 TCCCATCTGGCGTCTGTGACTTCCCTATCTGA 747
 Db 733 TCCTTTTGACCTGTCTGTGATTCTCTCTGA 765

RESULT 9
 US-10-076-816-54
 ; Sequence 54, Application US/10076816
 ; Publication No. US20030056244A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Huang, Ning
 ; APPLICANT: Rodriguez, Raymond
 ; APPLICANT: Hagie, Frank E.
 ; TITLE OF INVENTION: Feed Additive Compositions and Methods
 ; FILE REFERENCE: 50665-8021.US00
 ; CURRENT APPLICATION NUMBER: US/10/076,816
 ; CURRENT FILING DATE: 2002-02-14
 ; PRIOR APPLICATION NUMBER: US 60/269,188
 ; PRIOR FILING DATE: 2001-02-14
 ; PRIOR APPLICATION NUMBER: US 09/847,232
 ; PRIOR FILING DATE: 2001-05-02
 ; PRIOR APPLICATION NUMBER: US 60/266,929
 ; PRIOR FILING DATE: 2001-02-06
 ; PRIOR APPLICATION NUMBER: US 60/201,182
 ; PRIOR FILING DATE: 2000-05-02
 ; NUMBER OF SEQ ID NOS: 60
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO: 54
 ; LENGTH: 1409
 ; TYPE: DNA
 ; ORGANISM: Bos taurus
 US-10-076-816-54

Query Match 1 ATGTCCTGTTCCATACTCCCTCTCCCTGAGATGGTGGCAGGGCTT-----55
 Best Local Similarity 76.4%; Pred. No. 8 1e-135; Indels 9; Gaps 2;
 Matches 575; Conservative 0; Mismatches 169;

Query Match 16 ATGGCTGTGTTACATCTCTCTCTCTCTGAGATCTGTGCA 75

Db 56 -ACTCAAAACTGTGACTCTGCTCCCTCTCCCTGAGATGGTGGCAGGGCTT 114
 Db 76 GACACAGAACAGAGAACATCGGAACCTCC--CCGTGATGCGCTGT 132

Db 115 AGTCCTCAGGATCAAGGTTCCCGCAAGATGGCTGATGGCACAAGGAGAA 174
 Db 133 GGTCCTCGGGCATCTGGATCTGGCTGAGGGCAAGGGAA 192

Db 175 AACGGGAAACCAAGGGCAAGGGCTACAGGGCTTACAGGGCCCT 234
 Db 193 AAGGGAAACCAAGGGCTACAGGGCTACAGGGCCCT 252

Qy 235 CCAGGAATCCAGGGCCCTCTGGTACAGGACCAAGGGCAAAAGGAGACCTGGA 294
 Db 253 CAGGAACCCAGGATCCCTGGATACAGGACCATAGCCAAAAGGAGACCTGGA 312

Qy 295 AAAAGTCGGATGGTACTAGCCGATGGCTGGCTAGAGAGAAAGCTGCTGCACAAACAGA 354
 Db 313 GAAATATGGTGACTATTCCTGGCTGACTGAGAAACTCTACATCTGAA 372
 Qy 355 ATGGCACATATCAAAGTGGCTGCCCTCTCTGGAAACAGTGGAAACAGTC 414
 Db 373 TTGAACCAGATCAAACCTGGCTAACTCTGGCAAAAGTGGAAACAGAGGGCA 432
 Qy 415 TTCCCTACCAATGGTAATAATGACCTTGTGAAAGAAGTGGCTGGTGTGAGTC 474
 Db 433 TTTCCTACCAATGGTAATAAGATGCCCTTAATGAGTGAGAGACCTGTGAGTC 492
 Qy 475 CAGGCCCTGTGGCACCCCGGATGTGCAAGGATGAGGCAATTGAGATCTCATC 534
 Db 493 CAGGCCCTGTGGCACCCCGGATGTGCAAGGCAAGGGCAAGTTGAGATCTG 552
 Qy 535 AAGGAGGAAGCCTTCTGGGATCAGTGTGAGAGACAGAAGGGCAAGTTGAGATCTG 594
 Db 553 ACTGAAGGGCTTCTGGCATCACAGTCAGATCGAGACTGAAAGAAATTGTGAGATCTG 612
 Qy 595 ACAGGAAATAAGACTGACCTACACAACACTGGCAAGGGTGAACCCACAGTGGCTCTCT 654
 Db 613 ACAGGAAAGGGGTGACCTACAAACTGGATGTGCAAGGGCTTCAACAGCTCTCT 672
 Qy 655 GATGAGAGATTGTGTTATGCTACTGAAAAATGGCCTGAAATGAGCTGGCTCCACC 714
 Db 673 GCGGAGCACTGTGACACTCTGTGGACATGGATGTGCAAGGGCTTCAACAGCTCTCT 732
 Qy 715 TCCCATCTGGCGTCTGTGACTTCCCTATCTGA 747
 Db 733 TCCTTTTGACCTGTCTGTGATTCTCTCTGA 765

RESULT 10
 US-10-164-420-2521
 ; Sequence 2521, Application US/10764420
 ; Publication No. US20050084872A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Lum, Pak Yee
 ; APPLICANT: Tan, Yejun
 ; APPLICANT: Dai, Hongrue
 ; TITLE OF INVENTION: Methods For Determining Whether An Agent Possesses A Defined Biological Activity
 ; FILE REFERENCE: ROSA122057
 ; CURRENT APPLICATION NUMBER: US/10/0764420
 ; CURRENT FILING DATE: 2004-01-23
 ; PRIORITY APPLICATION NUMBER: US 60/442,797
 ; PRIOR FILING DATE: 2003-01-24
 ; PRIORITY APPLICATION NUMBER: US 60/474,413
 ; PRIOR FILING DATE: 2003-05-30
 ; NUMBER OF SEQ ID NOS: 3683
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO: 2521
 ; LENGTH: 1069
 ; TYPE: DNA
 ; ORGANISM: Mus musculus
 US-10-164-420-2521

Query Match 1 TCCCTCTCTGAGATGGTGGCAGCTCTACTGAGAAACTGTGACCTCT 85
 Best Local Similarity 71.7%; Pred. No. 2e-111;
 Matches 518; Conservative 0; Mismatches 198; Indels 6; Gaps 2;

Db 196 TCCCTCTCTGAGATGGTGGCAGCTCTACTGAGAAACTGTGACCTCT 252

Qy 86 AAAAGACCCGCCCCCTGAGCTCCAGGCTAAACGGCTTCCAGGA 145
 Qy 253 AAAATTCCCTCCCT---GGGTACCTGAGTTCCAGGCTTCAATGGCTTCCAGGA 309

Qy 146 AAGATGGGCTGATGGCAACCAAGGGGAAACAGGGCAAGGGCTAGAGGT 205

Db

Db	31.0	AAGTGGAGGTGAAAGGCCAAGGGAGAAAAGGGAAACAGGTCAAGGGCTCAGAGGCT 3.69
Qy	206	TACGGGCCCTCTGGAAGTTGGGCTCAGAAATCAGGGATTCTGGTACCCAG 265
Db	370	TGCAAGGCCCTCTGGAAGTAGGACCTAACAGGAACTCCAGGAAATCGGGTAAAG 429
Qy	266	GACCAAGGGCAAAAGGAGACCTGGAAAAACTCCGGATGGTATAGTAGCCCTGGCTG 3.25
Db	430	GACGAGTGGACCAAGGAGACGGTGGACAGAGAAATTGATACTGGCAAAATTG 489
Qy	326	CCTCAAGAAAGAACAGAACAGAAATGGCACTGATCAAAGTCAGCTGACGCTCT 3.85
Db	490	ATTAGAAATTGCAAGGCCCTAGATCAGCTGAGAACACTGGTGCCTCTCT 5.49
Qy	386	CTCTGGCAAAACAGTTGGAAACAGTTCTCTGACCAATGGTGAATAATGACCTTG 4.45
Db	550	CTCTGAGTGGAAAGTGGAAAGGATTTTGAGCTTAAGATGAGGCTCTG 6.09
Qy	446	AAAAGTGAAGGGCTTGTGTCAAGTTCAGGCTCTGGCCAACCCCCAGGAAATGGCTG 5.05
Db	610	ACGAGTGAAGGCCCTGTCTCCAAATTCCAGGCTCTGGCAACTCCAGGATGCTG 6.69
Qy	506	CAGAGATGGAGCATTCAAACTCATAGGGAAAGCTCTGGCATCACTGTATG 5.65
Db	670	AGGAAACTGGCCATCCAGAAAGTGGCAAAGTATGCTACTGGCATCAAGATG 7.29
Qy	566	AGAGACAGAAAGGCCAGTTGTGATCTGACAGAAATAGACTGAACTAACATGGA 6.25
Db	730	TGAGGTGAAGGGATTTGAGATCTGACAGAAACAGATGGTACATATGGAA 7.89
Qy	626	ACGAGGTGAACCCAACATGCTGGTTCTGATGAGATGTTGATGACTGAAATACTG 6.85
Db	790	ATGATGGAGGCCAACACACCCGGATGGGAGACTGTGTCGGTAACTGGAAATG 8.49
Qy	686	GCCAGTGAATGAGTCCCCCTGCTCACCTCCCATCTGCCGTCTGTGAGTTCCCCTATCTG 7.45
Db	850	GCAAGTGGAACGATGTCCCTGCTGACTCTTGGCAATCTGTGATTCTGTGACT 9.09
Qy	746	GA 747
Db	910	GA 911
RESULT 11		
US-09-917-800A-1710		
; Sequence 1710, Application US/09917800A		
; Patent No. US20020194621		
; GENERAL INFORMATION:		
; APPLICANT: Mandrick, Donna		
; PORTER, Mark		
; APPLICANT: Johnson, Kory		
; APPLICANT: Castle, Arthur		
; APPLICANT: Elashoff, Michael		
; APPLICANT: Gene Logic, Inc.		
; TITLE OF INVENTION: Molecular Toxicology Modeling		
; FILE REFERENCE: 44921-503-US		
; CURRENT APPLICATION NUMBER: US/09/917,800A		
; CURRENT FILING DATE: 2001-07-31		
; PRIORITY NUMBER: US 60/222,040		
; PRIORITY FILING DATE: 2000-07-31		
; PRIORITY NUMBER: US 60/222,880		
; PRIORITY FILING DATE: 2000-11-02		
; PRIORITY NUMBER: US 60/290,029		
; PRIORITY FILING DATE: 2001-05-11		
; PRIORITY NUMBER: US 60/230,645		
; PRIORITY FILING DATE: 2001-05-15		
; PRIORITY NUMBER: US 60/292,336		
; PRIORITY FILING DATE: 2001-05-22		
; PRIORITY NUMBER: US 60/295,798		
; PRIORITY FILING DATE: 2001-06-06		
; PRIORITY NUMBER: US 60/297,457		
; PRIORITY FILING DATE: 2001-06-13		
; PRIORITY NUMBER: US 60/238,884		

Page 8

i APPLICANT: Wolf, Detlef
 i TITLE OF INVENTION: BIOMARKERS AND EXPRESSION PROFILES FOR TOXICOLOGY
 i FILE REFERENCE: 21119
 i CURRENT APPLICATION NUMBER: US10/388,934
 i CURRENT FILING DATE: 2003-03-14
 i PRIORITY NUMBER: 02005336.9
 i PRIOR FILING DATE: 2002-03-14
 i PRIORITY NUMBER: 02015657.6
 i PRIOR FILING DATE: 2002-07-17
 i NUMBER OF SEQ ID NOS: 862
 i SOFTWARE: PatentIn version 3.1
 i SEQ ID NO: 107
 LENGTH: 1068
 i TYPE: DNA
 i ORGANISM: Rattus sp.
 i US-10-388-934-107

Query Match		Score 287.6; DB 17;		Length 1068;																																			
Best Local Similarity		Pred. No. 2.6e-83;																																					
Matches 417; Conservative		0; Mismatches 189; Indels 6; Gaps																																					
Qy	Db	Qy	Db	Qy	Db																																		
142	GGCAAAGATGGCGGTGATGGACCAAGGGAAANGGGAACAGGCCAAGGGCTCAC	64	GGCAGAGCCGAGGTGCGCCAAANGGGAGGGAAACCAGGTCAGGCTCAC	202	GGCTTAAGGGCCCTCTGGAAGTGGGGCCTCCAGGAATCCAGGGCTTCGGGT	184	GGCTTCAGGGCCCTCAGGAAAATGGGATCTGGGCTCTAGGAAGTGTAGG	322	GC-----TGCTCTAGAAGAAAAGCTCTGAAAAGAATGGCAGTCAAAAGTG	244	GCAAAATGGGAGAGGATAAACCCCTGAGTCAACTGGACATACAAAGATG	376	CTGACCTTCTCTGGCAAAACAAGTGGGAAACAAGTTCTGACCAATGGTAAAT	304	CATGCCCTTCTCCATGCTAAAAGTCGGAGAAACTCTGGACATACAAAGATG	436	ATGACCTTGTAAAAGTGAAAGCCCTGTGTCAAACTTCCAGGCCCTCTGG	364	ATGCCCTTCTCCAGGAAATGGGAGGCTCCAGGCACTCTGGCTATCC	496	AGGAATCTGGAGAGAATGGGCCATTCAAGATCTCATCAGGAGAAGCTCTGG	424	AGGAATCTGAGGAGCAAGGCCATCAAGAGGCTTAAACCTCTGGCTTCTG	556	ATCACTGATGAGAAGACAAGGGCAGTTGGGATCTGACAGGAATAAGCTG	484	ATCACGGCGAGCTGACTGAAGGCCATTCTGATGATGAGCTGCTCACCT	616	ACRAACTGAAACAGGGTAACCCAAATGCTGGTCTGATGAATTTGGTATG	544	AGCAACTGAAAGAGTGAAGGCCAAATGCACTGGCTCTGGGAAGCTGTC	676	CTGAAAATGGCCAACTGGAAATGAGCTCCCTGTCAACTCCATGCGCTCTGTG	604	GTAGACGARGGTGTGGAAATGACATCTCCACAGGCTCTGCTSGG	736	TTCCTPATCTGA 747	Db	664 TTCCTCAGGCTCTGA 675

RESULT 13
 US-09-960-352-11785
 i Sequence 11785, Application US/09960352
 i Patent No. US2002017139A1
 i GENERAL INFORMATION:
 i APPLICANT: Warren, Wesley C.
 i APPLICANT: Tao, Ningbing

APPLICANT: Byatt, John C.
TITLE OF INVENTION: NUCLEIC ACID AND OTHER MOLECULES ASSOCIATED WITH LACTATION AND
TITLE OF INVENTION: MUSCLE AND FAT DEPOSITION
FILE REFERENCE: 16511.006/37-21(10/98)C
CURRENT APPLICATION NUMBER: US/09/960, 352
CURRENT FILING DATE: 2001-09-24
NUMBER OF SEQ ID NOS: 15112
SEQ ID NO 11785
LENGTH: 419
TYPE: DNA
ORGANISM: Bos taurus
OTHER INFORMATION: Clone ID: 50-LIB34-061-Q1-E1-E6
US-09-960-352-11785

Matches 257; Conservative 0; Mismatches 118; Indels 0; Gaps 0;

NAME/KEY: misc feature
 LOCATION: (425)
 OTHER INFORMATION: n is a nucleotide selected from a, g, c, or t
 US-10-070-415A-45

Query Match 24.9%; Score 186; DB 18;
 Best Local Similarity 98.9%; Pred. No. 7.8e-50;
 Matches 186; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

1 ATGCCCTGGTTCATCACTCCCTCCATGGTCAAGTCTGGGTCTACTCA 60
 715 ATGCCCTGGTTCATCACTCCCTCCATGGTCAAGTCTACTCA 774

Qy 1 61 GAACTGGAACCTGGAGATGCGAAATTCAAACTCATCAAGGAGAAC 61
 Db 775 GAACTGGAACCTGGAGATGCGAAATTCAAACTCATCAAGGAGAAC 834

Qy 121 CCAGGCATCAAACGGTTCCAGGAAAGATGGGTGATGCCACAAAGGGG 180
 Db 835 CCAGGCATCAAACGGTTCCAGGAAAGATGGGTGATGCCACAAAGGGG 894

Qy 181 GAACZAGG 188
 Db 895 GAACZAGG 902

Search completed: June 20, 2005, 19:30:53
 Job time : 1646 Secs

Db 379 TGTCAGTACTAGACAACGTCCTGGAATGACATCTCCGAAAGCC 378

Qy 726 CGTCCTGAGAATCCC 740

Db 379 TGTCAGTACTAGACAACGTCCTGGAATGACATCTCCGAAAGCC 393

RESULT 15
 US-10-070-415A-45
 Sequence 45, Application US/10070415A
 Publication No. US200410043379A1
 GENERAL INFORMATION:
 APPLICANT: HASHIMOTO, Koji
 APPLICANT: ASHIKAWA, Michie
 APPLICANT: MISHIRO, Shunji
 APPLICANT: OOTA, Yasuhiko
 TITLE OF INVENTION: DETECTION OF NUCLEIC ACID ASSOCIATED WITH DISEASE
 FILE REFERENCE: 220633US2SRDPCT
 CURRENT FILING DATE: 2003-07-23
 PRIOR APPLICATION NUMBER: US-10/070,415A
 PRIOR FILING DATE: 2002-03-05
 PRIOR APPLICATION NUMBER: JP 2001-090053
 PRIOR FILING DATE: 2001-03-27
 PRIOR APPLICATION NUMBER: JP 2001-284112
 PRIOR FILING DATE: 2001-09-18
 NUMBER OF SEQ ID NOS: 72
 SOFTWARE: PatentIn version 3.1
 SEQ ID NO: 45
 LENGTH: 1802
 TYPE: DNA
 ORGANISM: Homo sapiens
 FEATURE:
 NAME/KEY: misc feature
 LOCATION: (96)..(96)
 OTHER INFORMATION: n is a nucleotide selected from a, g, c, or t
 FEATURE:
 NAME/KEY: misc feature
 LOCATION: (649)..(649)
 OTHER INFORMATION: n is a nucleotide selected from a, g, c, or t
 FEATURE:
 NAME/KEY: misc feature
 LOCATION: (868)..(868)
 OTHER INFORMATION: n is a nucleotide selected from a, g, c, or t
 FEATURE:

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Copyright (c) 1993 - 2005 Compugen Ltd.	GenCore version 5.1.6	AI876217 uj59d03.y
OM nucleic - nucleic search, using SW model		AI86738 uj59d08.x
Run on:	June 20, 2005, 03:04:56 ; Search time 3223 Seconds (without alignments)	CB98709 AGENCOURT
Title:	US-10-054-536-2	CA78654 AGENCOURT
Perfect score:	747	CF179019 813103 MA
Sequence:	1 atgtccatgtttccatcaact.....tcttgtagttccctatctgta 747	B114334 02290384
Scoring table:	IDENTITY_NUC	BX526094 BX526094
Gapop 10_0 , Gapext 1.0		B1145807 602309275
Searched:	3423954 seqs, 19032134700 residues	AIG97858 ue49g03.y
Total number of hits satisfying chosen parameters:	684799088	C0675645 DG42-1721
Minimum DB seq length: 0		COT775884 ILLUMIGEN
Maximum DB seq length: 2000000000		CA479163 AGENCOURT
Post-processing: Minimum Match 0%		AI118440 ue49g03.x
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	5: gb_est4:*	AV649531 AV649531
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	3: gb_htc:*	
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		REFERENCE 1. (bases 1 to 807) Williams,D.R., Gracey,A.Y., Martin,S.L., Hughes,M.A., Li,W., Rogers,J. and Cossins,A.R.
		AUTHORS
		TITLE Microarray analysis of transcriptional changes during hibernation in the Golden mantled ground squirrel, Spermophilus lateralis
		JOURNAL Unpublished (2004)
		COMMENT Contact: Andrew R. Cossins Laboratory for Environmental Gene Regulation School of Biological Sciences, The Biosciences Building, Crown Street, Liverpool, United Kingdom, L69 7ZB
		STREET, Liverpool, United Kingdom, L69 7ZB
		TEl: +44 (0)151-795-4510 FAX: +44 (0)151-795-4431
		Email: cossins@liv.ac.uk
		Vector has been trimmed from this EST. Plate: 21 row: f column: 10
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 Bovinae; Bos
 REFERENCE AUTHORS Smith, T.P.L., Gross, W.M., Freking, B.A., Roberts, A.J., Stone, R.T.,
 Casas, E., Wray, J.B., White, J., Cho, J., Fahrenkrug, S.C.,
 Bennett, G.L., Heaton, M.W., Laegreid, M.W., Rohrer, G.A.,
 Chitko-McKown, C.G., Partea, G., Holt, I., Karamycheva, S., Liang, F.,
 Quackenbush, J. and Keele, J.W.
 TITLE Sequence evaluation of four pooled-tissue normalized bovine cDNA
 libraries and construction of a gene index for cattle
 JOURNAL Genome Res. 11 (4), 626-630 (2001)
 MEDLINE 21180013
 PUBMED 11282978
 COMMENT Contact: Smith, TPL
 USDA, ARS, US Meat Animal Research Center
 PO Box 166, Clay Center, NE 68933-0166, USA
 Tel: 402 762 4366
 Fax: 402 762 4390
 Email: smith@email.marc.usda.gov
 Single pass sequencing. Bases called with phred v0.020425.c and
 trimmed with the aid of the trim_alt option. Vector identified with
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ORIGIN

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Query	Match	Score	DB	Length
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Db	439	TCCAGAATCTCATCAGGAGAAAGCTTCTGGGACTGTGAGAGACAGAGGCC	498	Qy	245	CAGGCCCTGGTACAGGCAAAAGGGCAAAAGGGACCTGGAAAAGTCCGG	304
Qy	581	AGTTTGATGCTGAGGAAATAGACTGACCTACACAACTGGAGGTGAACCCA	640	Db	273	CAGGAAATCTGGTCAGGAGACAGGGACCAAAAGGGCAACGGGACCTGGAGAGTGTAG	332
Db	499	GCTTGGATGCTGAGGAAACAGTGGCTATTCAATTGGATGGATGGAAACCCC	558	Qy	305	ATGGTATGACTGGCTGGCTCAGAAAGAAAGTGTGAAACAGAAATGGCACGTA	364
Qy	641	ACATGCTGGTCIG	655	Db	333	AATGATAATACCAACATGATTGAGATTTGAGATTTGAGCTGAGCTGAGCTA	392
Db	559	ACACCAAGGGCGATG	573	Qy	365	TCAAAAAGTGGGACCTTCTCTGGAAACAAAGTGGAGAACAGTCTCTGACCA	424
Db				Db	393	TGAAAGTGGGTGTCCTCTGAGAAATGTTGAAACAAAGTACTCTGAGCA	452
RESULT 12				Qy	425	ATGGTGAATATAAACCTTGAAAGTGTGGAGTGGCTCAGGCTCTG	484
AY325174	LOCUS	AY325174 Rattus norvegicus Ab2-011 mRNA	1162 bp linear	Db	453	GTCCTAGAGGATGCCCTTAACAGGCCAACGGTCTGCTCCGA	512
DEFINITION		Rattus norvegicus Ab2-011 mRNA	complete cds.	Qy	485	TGGCCACCCCAAGGATGCTGAGAGAAATGGCCATTGAGAAATGGAGAG	544
ACCESSION		AY325174		Db	513	TGGCAACTCCAGGAGATGTGAGAAATGTTGAAATGAGTGTGAG	572
VERSION		AY325174.1	GI:33086525	Qy	545	CCTCTGGCATACTGTGAGAGAAATGGCCATTGAGAAATGGCC	604
KEYWORDS		HTC.		Db	573	CCCTTGGCATACGGACTGAGGACTGAGGACTGAGTGTGAG	632
SOURCE		Rattus norvegicus (Norway rat)		Qy	605	GACTGACCTACACAACTGAGAACAGGG	632
ORGANISM		Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;		Db	633	GAGTCGCTACACTGAGTGTGAG	660
MATERIAL		Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;					
RATTUS		Rattus norvegicus					
REFERENCE		1. (bases 1 to 1162)					
AUTHORS		Xu, C.S., Li, W.Q., Li, Y.C., Han, H.P., Wang, G.P., Chai, L.Q.,		RESULT 13			
JOURNAL		Yuan, J.Y., Yang, K.J., Yan, H.M., Chang, C.F., Zhao, L.F., Ma, H., Wang, Q.N. and Zhang, J.B.		AY325178			
FEATURES		Wang L., Wang S.F., Shi, J.B., Rahman, S., Rahman, S., Wang, Q.N. and Zhang, J.B.		LOCUS	AY325178	1162 bp mRNA	HTC 26-JUL-2003
REFERENCE		Liver regeneration after PH		DEFINITION	Rattus norvegicus Ab2-001 mRNA	complete cds.	
AUTHORS		Unpublished		VERSION	AY325178		
JOURNAL				KEYWORDS	AY325178.1		
FEATURES				SOURCE	HTC.		
REFERENCE				ORGANISM	Rattus norvegicus (Norway rat)		
AUTHORS				REFERENCE	Rattus norvegicus		
JOURNAL				AUTHORS	Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;		
FEATURES				JOURNAL	Mammalia; Buteraria; Rodentia; Sciurognathi; Muridae; Murinae;		
REFERENCE				REFERENCE	Rattus		
AUTHORS				AUTHORS	1 (bases 1 to 1162)		
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FEATURES				TITLE			
REFERENCE				JOURNAL			
AUTHORS				NOTE			
JOURNAL				TRANSLATION			
FEATURES				MOLECULAR FUNCTION			
REFERENCE				PRODUCT			
AUTHORS				PRODUCT	"Rattus norvegicus"		
JOURNAL				MOL_TYPE	"mRNA"		
FEATURES				DB_XREF	"taxon:10116"		
REFERENCE				DB_XREF	"Ab2-011"		
AUTHORS				DB_XREF	"GI:33086526"		
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Qy	535	AAGGGAAACCTCTGGGCACTCTGGGAGATGTGCTGAGTCTGGATCTG	594		294	AAAAGTCGGATGGTGTAGCTGGCTGCTGGCTGAGTCTGGCTGAAACGA	353	
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Qy	326	ACAGAAACGAGTGCGTATACATTGAAATGTTGGAAACACACGGCGAT	267		181	ATGGCAGTAAAGTGGCTGACCTCTGGCAACAAAGTGGACAAAGTGGACAGT	240	
Db	655	GATGAGATGGTGTGATTGTGACTGAAATGGCCATGGATGACCTCCCTGCTCAC	714		414	CTTCCTGACCAATGGTAAATAATGACCTTGAAAGTGAAGGCCTGTGTCAAGT	473	
Db	266	GGGAAGACTGTGTGTTGATCTGGAAATGGCAATGTGACATGGTCCC	207		241	CTTCCTGACCAATGGTAAATAATGACCTTGAAAGTGAAGGCCTGTGTCAAGT	272	
Qy	715	TCCCCATCTGCCGCTGTGATTGCTCTATGTA	747		474	CAAGGCCCTCTGGCCACCCCCAGGAATGGCATTCAAGATCTCAT	533	
Db	206	TCTTTTGGCAATCTGTGATTCTGTGACTG	174		273	ATGTCGGAGAATGGCATTCAAGATCTCAT	306	
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LOCUS	AV660367	AV660367	367 bp	mRNA	linear	EST 16-JAN-2002		
DEFINITION	AV660367	GLC	Homo sapiens	cDNA clone GLCGH07 3'		, mRNA sequence.		
VERSION	AV660367	GI:98811381						
KEYWORDS	EST.							
SOURCE	Homo sapiens	(human)						
ORGANISM	Homo sapiens							
MATERIALS	Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;							
Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo.								
REFERENCE	1 (bases 1 to 367)							
AUTHORS	Xu,X., Huang,J., Xu,Z., Qian,B., Zhu,Z., Yan,Q., Cai,T., Zhang,X.,							
	Xiao,H., Qu,J., Liu,F., Huang,Q., Cheng,Z., Li,N., Du,J., Hu,W.,							
	Shen,K., Lu,G., Fu,G., Zhong,M., Xu,S., Gu,W., Huang,W., Zhao,X.,							
TITLE	Hu,G., Gu,J., Chen,Z., and Han,Z.							
	Insight into hepatocellular carcinogenesis at transcriptome level							
	by comparing gene expression profiles of hepatocellular carcinoma							
	with those of corresponding noncancerous liver							
JOURNAL	Proc. Natl. Acad. Sci. U.S.A. 98 (26), 15089-15094 (2001)							
MEDLINE	21625106							
PUBLMED	11752456							
COMMENT	Contact: Zengang Han							
	Chinese National Human Genome Center at Shanghai							
	351 Guo Shoujing Road, Zhangjiang Hi-Tech Park, Pudong, Shanghai							
	201203, P.R. China							
	Tel: 86-21-50801919 (ext.45)							
	Fax: 86-21-50801922							
	Email: hanzg@chgc.sh.cn							
	This clone is available at CHGC in Shanghai.							
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	/lab_host="SOLR"							
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	XbaI"							
ORIGIN								
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	Best Local Similarity	86.9%		Pred. No. 7.2e-72;				
	Matches	366;	Conservative	0;	Mismatches 0;	Indels 55;	Gaps 2;	
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Db	1	AAAGGGAAACGCCAGGGCTAGAGGCTTACGGGCCCCCTGGAAAGTGGGGCC	60					
Qy	234	TCCAGGAAATTCAGGGCCCTTGGGTCACCGGACCAAGGGAGACCAAGGGCA	293					

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